

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING						FORM 3 AMENDED REPORT				
<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER FD 10-17-2-2				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT MOFFAT CANAL				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8134				
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL tfallang@billbarrettcorp.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee') JESSE AND MARGIE CLARK						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-247-2336				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 67 BOX 11P, FORT DUCHESNE, UT 84026						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		2312 FSL 2935 FWL		NWSE	17	2.0 S	2.0 E	U		
Top of Uppermost Producing Zone		2312 FSL 2935 FWL		NWSE	17	2.0 S	2.0 E	U		
At Total Depth		2312 FSL 2935 FWL		NWSE	17	2.0 S	2.0 E	U		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 2312			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 6031			26. PROPOSED DEPTH MD: 10057 TVD: 10057				
27. ELEVATION - GROUND LEVEL 5110			28. BOND NUMBER LPM4138148			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-1645				
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	26	16	0 - 80	65.0	Unknown	8.7	No Used	0	0.0	0.0
SURF	12.25	8.625	0 - 1500	36.0	J-55 ST&C	8.7	Halliburton Light , Type Unknown	240	3.16	11.0
							Halliburton Premium , Type Unknown	270	1.36	14.8
PROD	7.875	5.5	0 - 10057	17.0	I-80 LT&C	9.5	Unknown	800	2.31	11.0
							Unknown	370	1.42	13.5
<b>ATTACHMENTS</b>										
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Brady Riley				TITLE Permit Analyst			PHONE 303 312-8115			
SIGNATURE				DATE 02/07/2014			EMAIL briley@billbarrettcorp.com			
API NUMBER ASSIGNED 43047542940000				APPROVAL  Permit Manager						

## **BILL BARRETT CORPORATION**

### **DRILLING PLAN**

#### **FD 10-17-2-2**

NWSE, 2312' FSL and 2935' FWL, Section 17, T2S-R2E, USB&M (surface hole)

NWSE, 2312' FSL and 2935' FWL, Section 17, T2S-R2E, USB&M (bottom hole)

Uintah County, Utah

#### **1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth – MD/TVD</u></b>
Green River	5,796'
Mahogany	6,786'
Lower Green River*	7,996'
Douglas Creek	8,157'
Black Shale	8,608'
Castle Peak	8,844'
Wasatch*	9,557'
TD	10,057'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 4,222'

#### **3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 1500'	Rotating Head or Diverter (may pre-set 8-5/8" with smaller rig)*
1500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

\*See Appendix A

#### **4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1500'	8 5/8"	24#	J-55	ST&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110/I-80	LT&C	New

Bill Barrett Corporation  
Drilling Program  
FD 10-17-2-2  
Uintah County, Utah

## 5. Cementing Program

16" Conductor Casing	Grout
8 5/8" Surface Casing (may pre-set with spudder rig)	Lead: 240 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 270 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 1000'
5 1/2" Production Casing	Lead: 800 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1000' Tail: 370 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 8108'

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 1500'	8.3 – 8.7	26 – 36	NC	Air/Mist/Freshwater Spud Mud Fluid System
1500' - 5500'	9.2 - 9.4	26 – 36	NC	Freshwater Spud Mud Fluid System
5500' – TD	9.4 - 9.5	42 – 58	25 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

## 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

## 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4968 psi\* and maximum anticipated surface pressure equals approximately 2755 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

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Drilling Program  
FD 10-17-2-2  
Uintah County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
  - b) Inside BOP or stab-in valve (available on rig floor)
  - c) Safety valve(s) and subs to fit all string connections in use
- Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be from:

43-2505, (t37379): McKinnon Ranch Properties, LC  
43-12345 (F78949): Dale Anderson  
43-10664 (A38472): W. E. Gene Brown  
49-1645 (A35800): RN Industries, Inc.  
49-2336 (t78808): RN Industries, Inc.  
43-8496 (A53617): A-1 Tank Rental  
43-10288 (A65273): Nile Chapman (RNI)  
49-2247 (F76893): Magnum Water Service  
43-8875 (t38762): Four Star Ranch (c/o David Yeman)

**11. Drilling Schedule**

Location Construction: May 2014  
Spud: May 2014  
Duration: 15 days drilling time  
6 days completion time

**12. Appendix A**

**8-5/8" casing may be preset with a spudder rig. If this occurs, the following equipment shall be in place and operational during air/gas drilling:**

- Properly lubricated and maintained rotating head
- Spark arresters on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless otherwise approved
- Deduster equipment
- All cuttings and circulating medium shall be directed into a reserve or blooie pit
- Float valve above bit
- Automatic igniter or continuous pilot light on the blooie line
- Compressors located in the opposite direction from the blooie line on the rig
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits



# Bill Barrett Corporation

## FORT DUCHESNE CEMENT VOLUMES

**Well Name:** FD 10-17-2-2

### Surface Hole Data:

Total Depth:	1,500'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	8.625"

### Calculated Data:

Lead Volume:	722.3	ft <sup>3</sup>
Lead Fill:	1,000'	
Tail Volume:	361.1	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	240
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	1,000'	

# SK's Tail:	270
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### Production Hole Data:

Total Depth:	10,057'
Top of Cement:	1,000'
Top of Tail:	8,108'
OD of Hole:	7.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1847.2	ft <sup>3</sup>
Lead Fill:	7,108'	
Tail Volume:	506.6	ft <sup>3</sup>
Tail Fill:	1,949'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	800
# SK's Tail:	370

<b>FD 10-17-2-2 Proposed Cementing Program</b>
------------------------------------------------

<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1000' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 1,000'
	Volume: 128.63 bbl
	<b>Proposed Sacks: 240 sks</b>
<b>Tail Cement - (TD - 1000')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,000'
	Calculated Fill: 500'
	Volume: 64.32 bbl
	<b>Proposed Sacks: 270 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (8108' - 1000')</b>	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,000'
	Calculated Fill: 7,108'
	Volume: 328.98 bbl
	<b>Proposed Sacks: 800 sks</b>
<b>Tail Cement - (10057' - 8108')</b>	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 8,108'
	Calculated Fill: 1,949'
	Volume: 90.21 bbl
	<b>Proposed Sacks: 370 sks</b>

**PRESSURE CONTROL EQUIPMENT – Schematic Attached**

**A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer.** The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 5,000 psi

**C. Testing Procedure:**

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

#### **D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

#### **E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

CONFIDENTIAL

**T2S, R2E, U.S.B.&M.**

N88°32'30"E - 3420.10' (Meas. To True)  
 N88°32'30"E - 3420.33' (Meas. To C.C.)

2003 Alum.  
 Cap, 0.5' High

C.C.  
 Alum. Cap

LOT 1

LOT 2

LOT 3

LOT 4

LOT 5

Re-Established  
 Corner, Using Single  
 Proportion. (Not Set  
 On Ground)

S00°21'33"W  
 822.89' (Meas.)

Re-Established  
 Corner, Using Double  
 Proportion. (Not Set  
 On Ground)

S00°05'34"W  
 2724.74' (Meas.)

E 1/4 Cor.  
 Sec 20,  
 Set Stone

NAD 83 (SURFACE LOCATION)

LATITUDE = 40°18'30.14" (40.308372)

LONGITUDE = 109°47'33.14" (109.792539)

NAD 27 (SURFACE LOCATION)

LATITUDE = 40°18'30.28" (40.308411)

LONGITUDE = 109°47'30.62" (109.791839)

Mile Marker 16,  
 Set in Stone

S22°54'39"E  
 5288.39' (Meas.)  
 3758.36'

Mile Marker 15,  
 Alum. Cap

1138.85'  
 2280.72' (Meas.)

846.14'

Re-Established  
 Corner, Using Single  
 Proportion. (Not Set  
 On Ground)

Mile Marker 14  
 Set Stone

N82°32'01"E  
 338.67' (Meas.)

**BILL BARRETT CORPORATION**

Well location, FD #10-17-2-2, located as shown  
 in the NW 1/4 SE 1/4 of Section 17, T2S, R2E,  
 U.S.B.&M., Uintah County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT THE SOUTHEAST CORNER OF SECTION 26,  
 T5S, R19E, S.L.B.&M., TAKEN FROM THE VERNAL SW,  
 QUADRANGLE, UTAH, UTAH COUNTY 7.5 MINUTE QUAD  
 (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES  
 DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID  
 ELEVATION IS MARKED AS BEING 5268 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM  
 FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY  
 SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE  
 BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING****85 SOUTH 200 EAST - VERNAL, UTAH 84078****(435) 789-1017**

SCALE  
 1" = 1000'

DATE SURVEYED:  
 5-20-13

DATE DRAWN:  
 5-23-13

PARTY  
 C.R. A.W. B.L.B.

REFERENCES  
 G.L.O. PLAT

WEATHER  
 WARM

FILE  
 BILL BARRETT CORPORATION

**LEGEND:**

└─┘ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

△ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

**RECEIVED: February 07, 2014**

# BILL BARRETT CORPORATION

**FD #10-17-2-2**

**LOCATED IN UINTAH COUNTY, UTAH  
SECTION 17, T2S, R2E, U.S.B.&M.**



**PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE**

**CAMERA ANGLE: SOUTHERLY**



**PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS**

**CAMERA ANGLE: SOUTHEASTERLY**



- Since 1964 -

**UELS**

**Uintah Engineering & Land Surveying**

85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**LOCATION PHOTOS**

**05 30 13**  
MONTH DAY YEAR

**PHOTO**

**TAKEN BY: C.R.**

**DRAWN BY: B.D.H.**

**REV:02-27-14 M.M.**

**BILL BARRETT CORPORATION**

## LOCATION LAYOUT FOR

FD #10-17-2-2

SECTION 17, T2S, R2E, U.S.B.&amp;M.

2312' FSL 2935' FWL

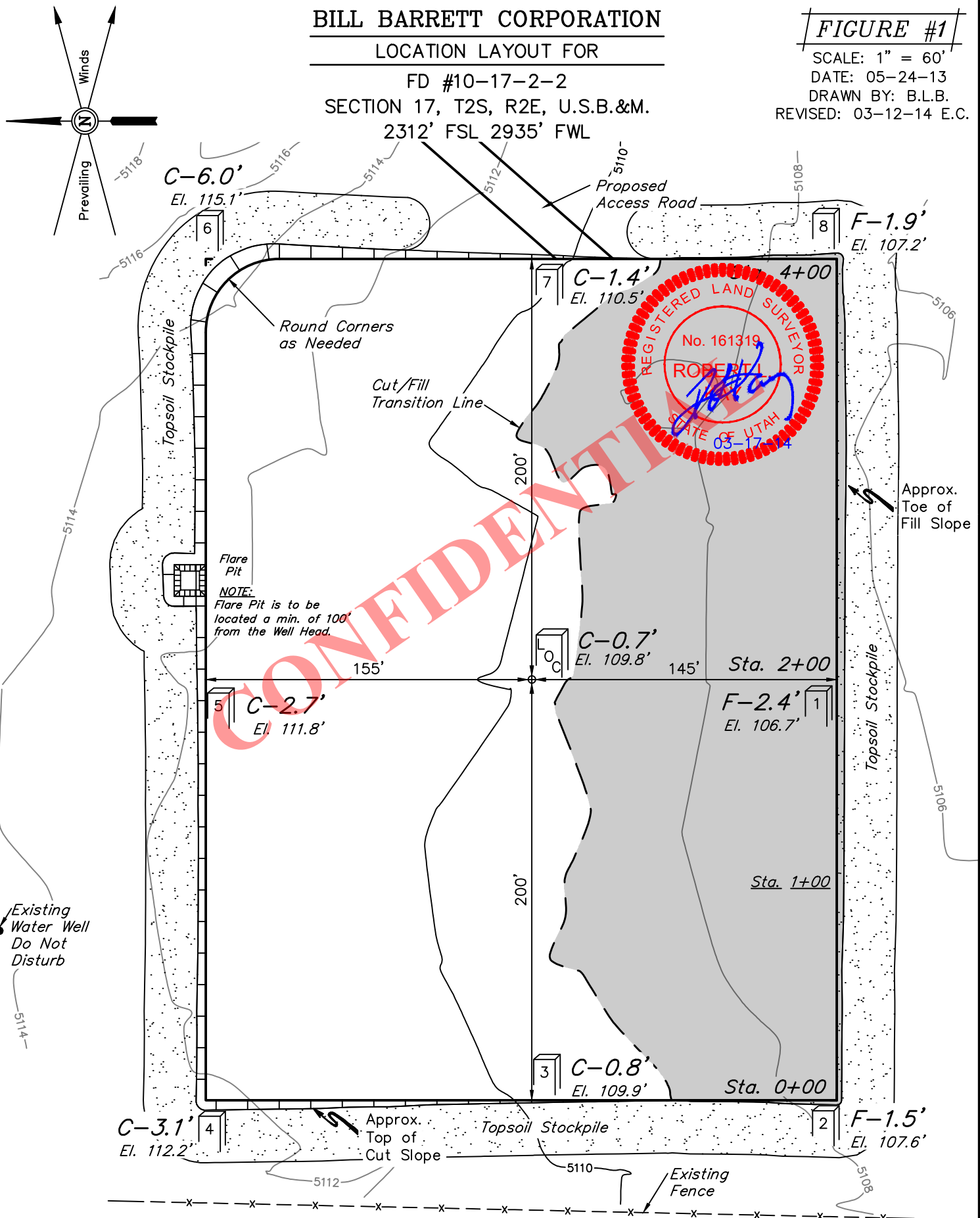
**FIGURE #1**

SCALE: 1" = 60'

DATE: 05-24-13

DRAWN BY: B.L.B.

REVISED: 03-12-14 E.C.



Elev. Ungraded Ground At Loc. Stake = 5109.8'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5109.1'

UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: March 19, 2014

**BILL BARRETT CORPORATION****TYPICAL CROSS SECTIONS FOR**

FD #10-17-2-2

SECTION 17, T2S, R2E, U.S.B.&amp;M.

2312' FSL 2935' FWL

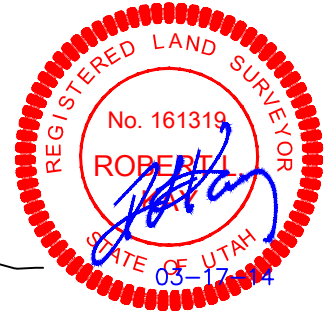
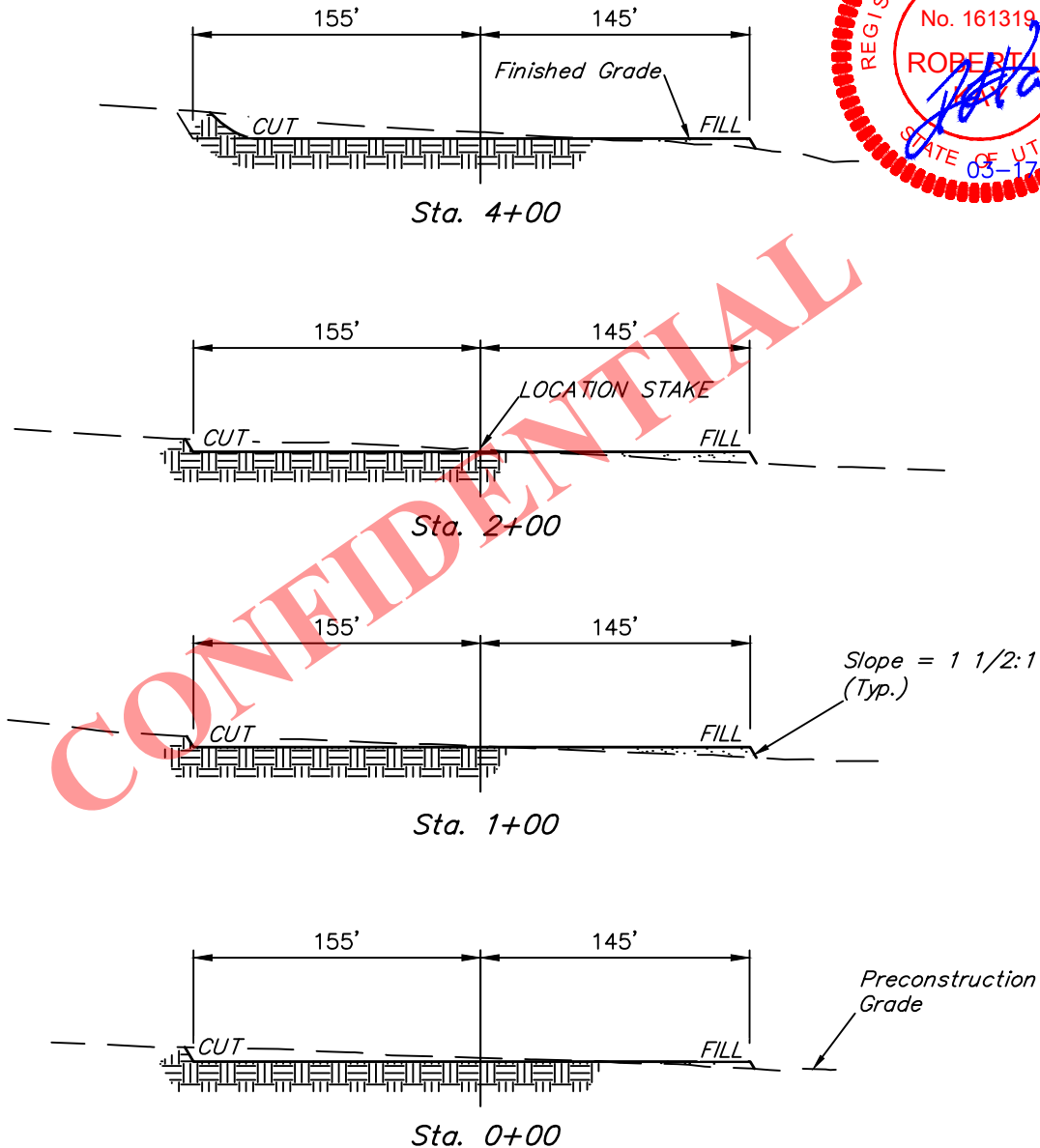
**FIGURE #2**

1" = 40'  
X-Section  
Scale  
1" = 100'

DATE: 05-24-13

DRAWN BY: B.L.B.

REVISED: 03-12-14 E.C.

**NOTE:**

Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 4.792 ACRES  
ACCESS ROAD DISTURBANCE = ± 2.982 ACRES  
PIPELINE DISTURBANCE = ± 3.004 ACRES  
TOTAL = ± 10.778 ACRES

**\* NOTE:**

FILL QUANTITY INCLUDES  
5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping = 2,310 Cu. Yds.  
Remaining Location = 3,250 Cu. Yds.  
TOTAL CUT = 5,560 CU.YDS.  
FILL = 3,250 CU.YDS.

EXCESS MATERIAL = 2,310 Cu. Yds.  
Topsoil = 2,310 Cu. Yds.

EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

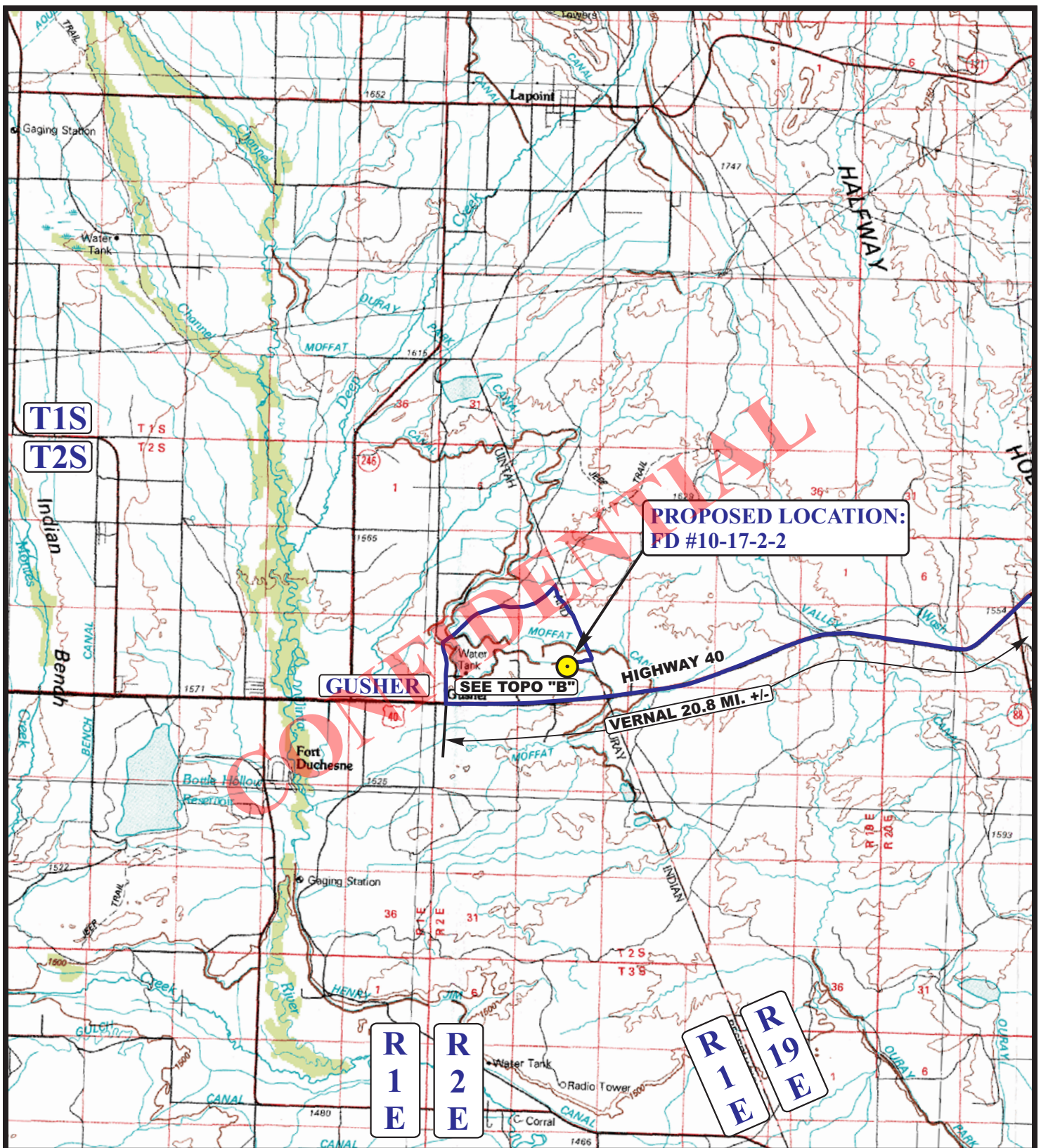
RECEIVED: March 19, 2014



**BILL BARRETT CORPORATION**  
**FD #10-17-2-2**  
**SECTION 10, T2S, R2E, S.L.B.&M.**

PROCEED IN A WESTERLY, THEN SOUTHWESTERLY, THEN WESTERLY DIRECTION FROM VERNAL, UTAH ALONG HIGHWAY 40 APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND 9500 EAST TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING CLASS "D" COUNTY ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3,240' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE FD #11-4-6-19 TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 5,238' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE FD #7-9D-6-19 TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 2,266' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, THEN WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 4,409' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 24.4 MILES.

**LEGEND:**

 **PROPOSED LOCATION**

**BILL BARRETT CORPORATION****FD #10-17-2-2****SECTION 17, T2S, R2E, U.S.B.&M.****2312' FSL 2935' FWL**

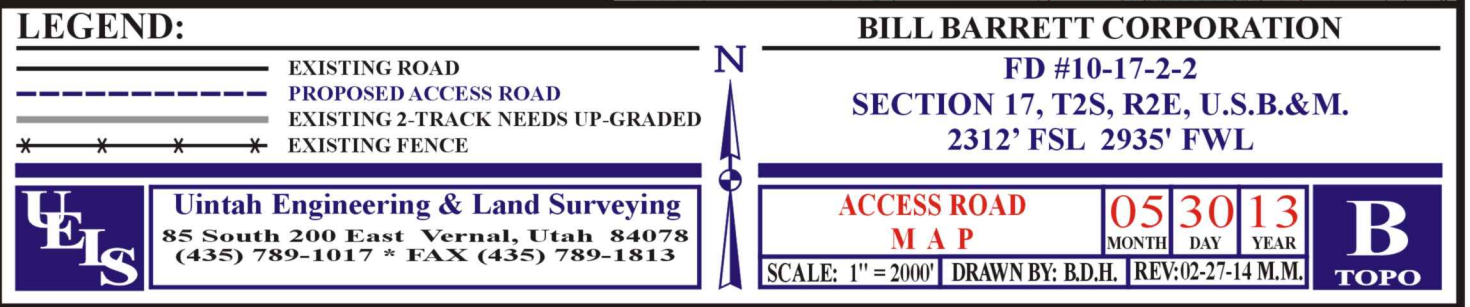
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

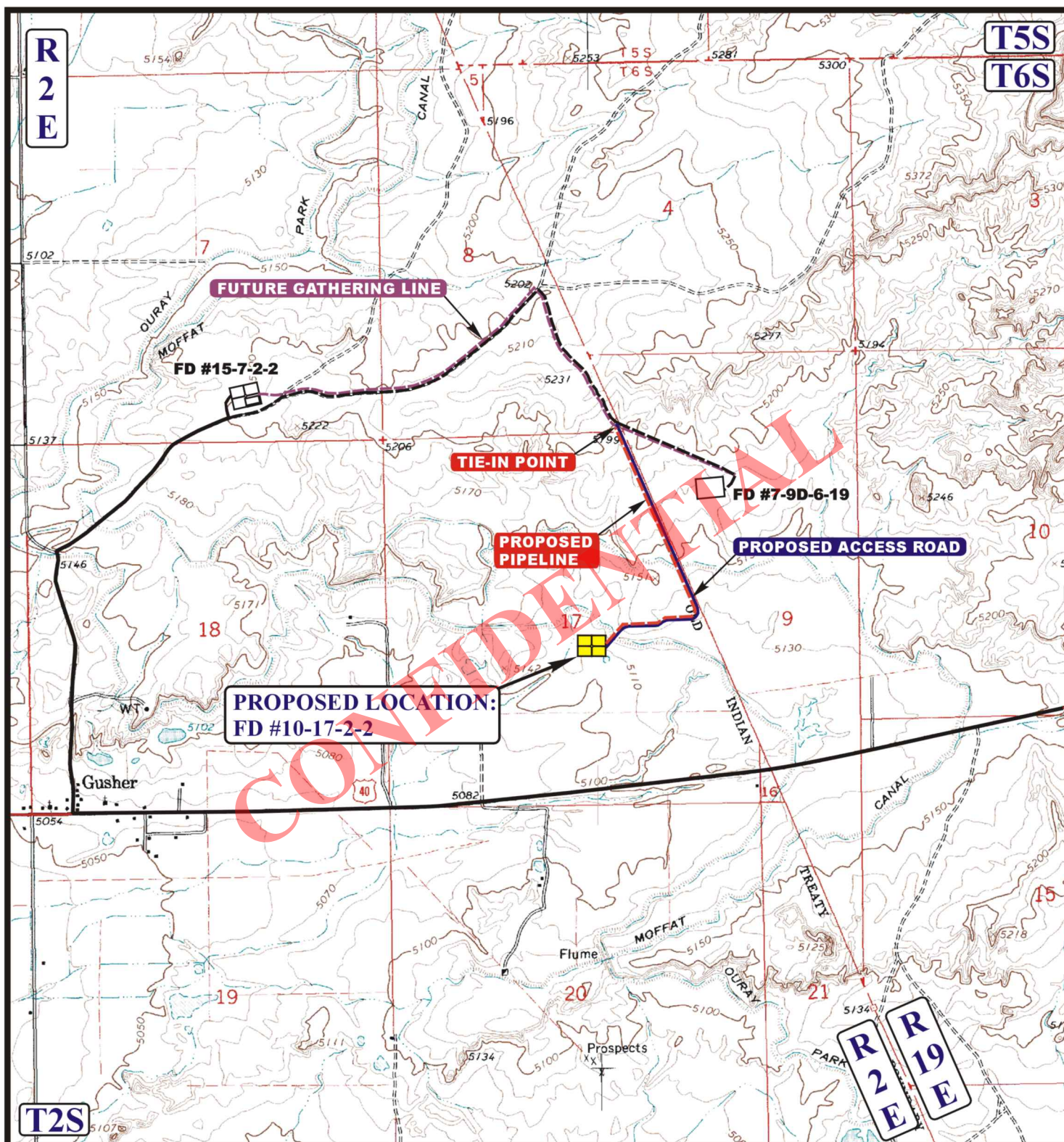
**ACCESS ROAD**  
**MAP**

**05 30 13**  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: B.D.H. REVISED: 00-00-00







**APPROXIMATE TOTAL PIPELINE DISTANCE = 4,354' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - PROPOSED PIPELINE
- - - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)



**BILL BARRETT CORPORATION**

**FD #10-17-2-2**  
**SECTION 17, T2S, R2E, U.S.B.&M.**  
**2312' FSL 2935' FWL**



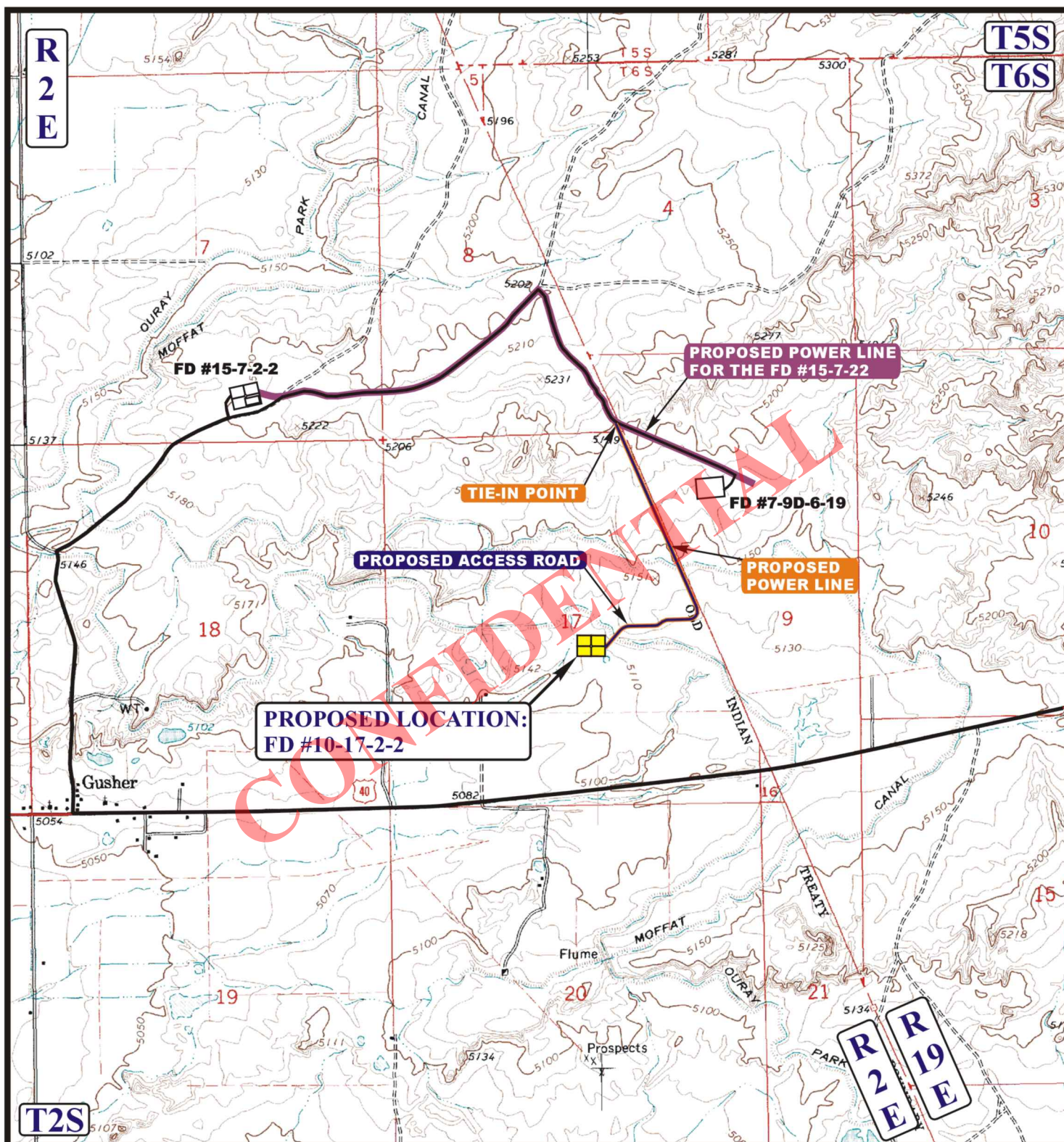
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**05 30 13**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: B.D.H. REV: 02-27-14 M.M.





APPROXIMATE TOTAL POWER LINE DISTANCE = 4,409' +/-

# LEGEND:

- PROPOSED ACCESS ROAD
- PROPOSED POWER LINE
- PROPOSED POWER LINE (SERVICING OTHER WELLS)



# BILL BARRETT CORPORATION

FD #10-17-2-2

SECTION 17, T2S, R2E, U.S.B.&M.

2312' FSL 2935' FWL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

05 30 13  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: B.D.H. REV:02-27-14 M.M.



**SURFACE USE AGREEMENT**  
(FD 10-17-2-2)

**THIS AGREEMENT** Dated July 17, 2013 by and between \_\_\_\_\_  
Jesse Don Clark and Margie G. Clark, husband and wife, as joint tenants and not as tenants in common with full rights  
of survivorship  
whose address is HC 67 Box 11P, Ft. Duchesne, UT 84026  
(435-247-2336) \_\_\_\_\_, hereinafter referred to as "Surface Owners", and  
**Bill Barrett Corporation and its Subsidiaries** \_\_\_\_\_, whose address is 1099 18<sup>th</sup> Street, #2300, Denver, CO 80202  
hereinafter referred to as "Operator".

WITNESSETH:

WHEREAS, Surface Owners represent that they are the owners in fee and in possession of the surface estate for the  
following described lands in Uintah County, Utah \_\_\_\_\_, hereinafter referred to as "Lands", to wit:  
A Tract of land lying in the **NW/4SE/4, Section 17, Township 2 South, Range 2 East, USM**, as further described on  
Exhibit "A" attached hereto and made a part hereof.

WHEREAS, Operator has or will acquire certain leasehold interests in the oil and gas mineral estate in the Lands and  
proposes to conduct drilling and subsequent production operations on the Lands; and

WHEREAS, Surface Owners are generally aware of the nature of the operations which may be conducted under oil  
and gas leases covering the mineral estate of the Lands; and

WHEREAS, the parties believe that it is in their mutual best interest to agree to the amount of damages to be assessed  
incident to the operations of Operator on the premises in the exploration for, development and production of oil, gas and/or  
other leasehold substances under the terms of those certain oil and gas leases now owned or which may be acquired by  
Operator covering portions of the mineral estate of the Lands; and,

WHEREAS, the parties believe that a reasonable estimate can be made of the damages which will result from the  
exploration, development and production operations contemplated by such oil and gas leases.

NOW, THEREFORE, in consideration of ten dollars and other valuable consideration, the sufficiency of which is hereby  
acknowledged, the parties agree as follows:

1. Operator has the right of ingress and egress and to the use of those portions of the Lands which it requires for oil  
and gas exploration, development and production operations, including tank batteries and other production facilities and the  
transportation of produced substances from the leasehold, and also the right to construct and use roads and pipelines across  
portions of the Lands. Operator shall pay Surface Owners as liquidated damages the following sum as full settlement and  
satisfaction of all damages growing out of, incident to, or in connection with the usual and customary exploration, drilling,  
completion, sidetracking, reworking, equipping and production operations, contemplated by the oil and gas leases covering  
the Lands, unless otherwise specifically provided herein:

2. Operator agrees to consult with the surface owners and/or tenant as to all routes of ingress and egress. Prior to  
the construction of any roads, pipelines, tank battery installations, or installation of any other equipment on the leased  
premises, Operator shall consult with the surface owners and/or tenant as to the location and direction of same.

3. It is the intention of the parties hereto to cause as little interference with farming operations on the leased premises  
as reasonably possible, including but specifically not limited to the operation of any pivotal irrigation sprinkler system, or any  
other irrigation method. If any circular irrigation sprinkler system is in use at the time of initial drilling operations on the leased  
premises, then any subsequent production equipment, including but specifically not limited to pump jacks, hydraulic lifting  
equipment, or any other equipment necessary to produce any oil or gas from such well, shall be recessed to such depths, or  
ramps constructed, so as to allow the continued use of such circular irrigation system.

4. In the event any well hereunder is plugged and abandoned, Operator agrees that Operator will, within a reasonable  
time, restore Surface Owner's surface estate as near as practical to its original condition found prior to Operator's operations.  
It is understood and agreed that Surface Owners may elect in writing, prior to cessation of operations of Operator, to have any  
road constructed under the terms of this Agreement remain upon the property, in which event Operator agrees to leave such  
road or roads in reasonable condition.

5. Operator is responsible for acquiring all necessary permits, licenses, fees, etc. incident to its operations on the  
Lands.

6. In the event Surface Owners consider that Operator has not complied with all its obligations hereunder, both express and implied, Surface Owners shall notify Operator in writing, setting out specifically in what respects Operator has breached this contract. Operator shall then have sixty (60) days to meet or commence to meet all or any part of the breaches alleged by Surface Owners. The service of said notice shall be precedent to the bringing of any action by Surface Owners for any cause, and no such action shall be brought until the lapse of sixty (60) days after service of such notice on Operator. In the event of litigation, the prevailing party's reasonable attorney's fees will be paid by the opposing party.

7. Operator shall be responsible and shall remain liable for any environmental problems on the subject lands which are caused by or through its operations. To the extent that any such claims are asserted, Operator will be responsible for any remediation required as provided by state regulations. This assumption of liability, however, does not include any third-party operations on the subject lands or any Surface Owner actions which could cause environmental problems but is limited solely to the actions of Operator. Operator hereby indemnifies and holds harmless Surface Owners from any and all environmental problems it causes on the Lands.

8. In the event Surface Owners own less than the entire fee interest in the Lands, then any payment stated herein shall be proportionately reduced to the interest owned.

9. This Agreement shall remain in full force and effect from the date hereof and for so long thereafter as Operator's oil and gas operations affecting the Lands are in effect.

10. When the word "Operator" is used in this Agreement, it shall also mean the successors and assigns of Operator, including but not limited to its employees and officers, agents, affiliates, contractors, subcontractors and/or purchasers.

11. This Agreement shall be binding upon and inure to the benefit of the heirs, successors and assigns of the parties.

ADDITIONAL PROVISIONS:

12. Operator shall install a five (5) strand barbed wire fence around the perimeter of the wellsite along with a cattle guard and through gate at the access to the location. Gate to remain unlocked at all times.

13. Operator shall install a culvert under the road to accommodate pond being built above the canal.

SURFACE OWNERS:

  
By: Jesse Don Clark

  
By: Margie G. Clark

S:

STATE of Utah ACKNOWLEDGEMENT

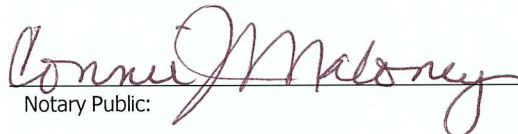
COUNTY of Uintah

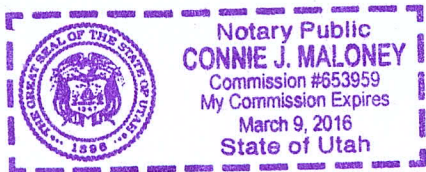
BEFORE ME, the undersigned, a Notary Public, in and for said County and State, on this 18th day of July, 2013, personally appeared Jesse Don and Margie G. Clark, in the capacities as stated above

, to me known to be the Identical person(s), described in and who executed the within and foregoing instrument of writing and acknowledged to me that they duly executed same as their free and voluntary act and deed for the uses and purposes therein set forth and in the capacity stated therein.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal the day and year last above written.

My Commission Expires: 3-9-16

  
Notary Public:



$N 88^{\circ} 32' 30'' E$	-	$3420.10'$	(Meas. To True)
$N 88^{\circ} 32' 30'' E$	-	$3420.33'$	(Meas. To C.C.)

Section Line

LINE TABLE			LINE TABLE		
LINE	DIRECTION	LENGTH	LINE	DIRECTION	LENGTH
L1	S2237°41'E	135.45'	L14	S73°28'21"W	79.07'
L2	S2237°41'E	1465.13'	L15	S45°31'14"W	111.10'
L3	S2237°41'E	43.03'	L16	S46°31'14"W	20.13'
L4	S24°03'32"E	450.05'	L17	S41°20'55"W	156.95'
L5	S2254°40'E	474.50'	L18	S41°20'55"W	70.71'
L6	S2254°41'E	220.10'	L19	S07°20'57"W	236.13'
L7	S101°51'11"E	03.20'	L20	N86°45'42"E	446.07'
L8	S16°20'00"W	70.97'	L21	N00°04'38"W	431.96'
L9	S66°32'23"W	88.20'	L22	S86°56'55"E	227.94'
L10	S09°00'05"W	356.11'	L23	S07°42'52"E	109.10'
L11	S52°06'41"W	33.28'	L24	S37°00'48"E	113.83'
L12	S52°06'41"W	154.14'	L25	S02°45'10"W	101.07'
L13	S89°33'23"W	348.87'			

END OF PROPOSED ROAD STA. 43+30.57 BEARS  
N74°51'14"W 1747.83' FROM MILE MARKER 15 IN  
SECTION 17, T2S, R2E, U.S.B.&M.

1/15 Section Line



1/4 Section Line  
**SURFACE USE AREA**  
**FD #10-17-2-2**  
Contains 4.504 Acres

SW 1/4

▲ = SECTION CORNERS LOCATED.

SW Cor. Sec 17.  
Spindle

1

Exsting 2-Trac

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

CERTIFICATE

17

**JESSE DON  
& MARGIE  
G. CLARK**

SCALE	1" = 400'	DATE	05-29-13
PARTY		REFERENCES	
WEATHER	WARM	G.L.O. PLAT	
		FILE	5408

**SHEET 2 OF 2**

ROAD RIGHT-OF-WAY DESCRIPTION ON  
SHIRLEY HUBER TRUSTEE, GLEN J HUBER  
FAMILY LIVING TRUST ETAL LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 SE 1/4 OF SECTION 8, T2S, R2E, U.S.B.&M. WHICH BEARS N31°13'48"W 145.51' FROM THE SOUTHEAST CLOSING CORNER OF SAID SECTION 8, THENCE S22°37'41"E 135.45' TO A POINT ON THE SOUTH LINE OF THE SW 1/4 SE 1/4 OF SAID SECTION 8 WHICH BEARS, S88°32'30"W 23.34' FROM THE SOUTHEAST CLOSING CORNER OF SAID SECTION 8, THENCE S22°37'41"E 1465.13' TO A POINT ON THE SOUTH LINE OF LOT 1 OF SECTION 17, T2S, R2E, U.S.B.&M. WHICH BEARS S21°46'91"W 1456.87' FROM THE NORTHEAST CLOSING CORNER OF SAID SECTION 17. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.102 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY DESCRIPTION ON  
WILLIAM K. & BILLIE J FARNSWORTH LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE NORTH LINE OF LOT 2 OF SECTION 17, T2S, R2E, U.S.B.&M. WHICH BEARS S21°46'91"W 1455.87' FROM THE NORTHEAST CLOSING CORNER OF SAID SECTION 17. THENCE S22°37'41"E 43.83'; THENCE S24°03'32"E 458.05'; THENCE S22°54'40"E 474.98'; THENCE S22°54'15"E 220.10'; THENCE S10°19'11"E 83.20'; THENCE S16°20'08"W 70.97'; THENCE S86°32'23"W 88.20'; THENCE S85°00'09"W 359.11'; THENCE S52°05'41"W 33.28' TO A POINT ON THE SOUTH LINE OF LOT 2 OF SAID SECTION 17 WHICH BEARS N49°21'47"W 1225.35' FROM MILE MARKER #15 IN SAID SECTION 17. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.258 ACRES MORE OR LESS.

ROAD RIGHT-OF-WAY DESCRIPTION ON JESSE  
DON & MARGIE G. CLARK LANDS

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE NORTH LINE OF THE NW 1/4 SE 1/4 OF SECTION 17, T2S, R2E, U.S.B.&M. WHICH BEARS N49°21'47"W 1225.35' FROM MILE MARKER #15 IN SAID SECTION 17, THENCE S52°06'41"W 164.14'; THENCE S89°33'23"W 348.87'; THENCE S73°29'21"W 79.07'; THENCE S45°31'14"W 111.10' TO A POINT ON THE EAST LINE OF THE NW 1/4 NW 1/4 SE 1/4 OF SAID SECTION 17 WHICH BEARS N69°11'20"W 1572.47' FROM SAID MILE MARKER #15 IN SAID SECTION 17. THENCE S45°31'14"W 28.13'; THENCE S41°20'55"W 156.95' TO A POINT IN THE NW 1/4 SE 1/4 OF SAID SECTION 17 WHICH BEARS, N74°51'14"W 1747.83' FROM MILE MARKER #15 IN SAID SECTION 17. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.612 ACRES MORE OR LESS.

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE NW 1/4 SE 1/4 OF SECTION 17, T2S, R2E, U.S.B.&M. WHICH BEARS N74°51'14"W 1747.83' FROM MILE MARKER #15 IN SAID SECTION 17. THENCE S07°20'57"W 236.13'; THENCE N89°45'24"W 449.87'; THENCE N00°04'38"W 431.56'; THENCE S89°56'56"E 227.94'; THENCE S87°42'52"E 189.10'; THENCE S37°08'48"E 113.63'; THENCE S02°45'18"W 101.07' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.604 ACRES MORE OR LESS.

RIGHT-OF-WAY LENGTHS				
PROPERTY OWNER	FEET	ACRES	RODS	
SHIRLEY HUBER TRUSTEE, GLEN J HUBER FAMILY LIVING TRUST ETAL	1500.58	1.102	97.00	
WILLIAM K. & BILLIE J FARNSWORTH	1841.71	1.258	111.52	
JESSE DON & MARGIE G. CLARK	888.28	0.612	53.84	
TOTAL	4330.57	2.982	252.45	

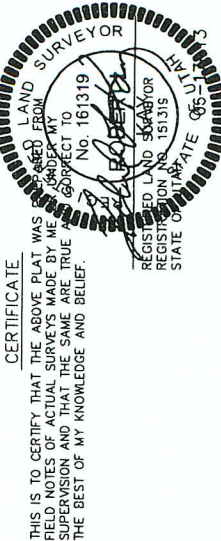
BILL BARRETT CORPORATION  
LOCATION SURFACE USE AREA  
& ROAD RIGHT-OF-WAY  
ON FEE LANDS

(For FD #10-17-2-2)

LOCATED IN  
SECTIONS 8 & 17, T2S, R2E, U.S.B.&M.,  
UNITAH COUNTY, UTAH

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



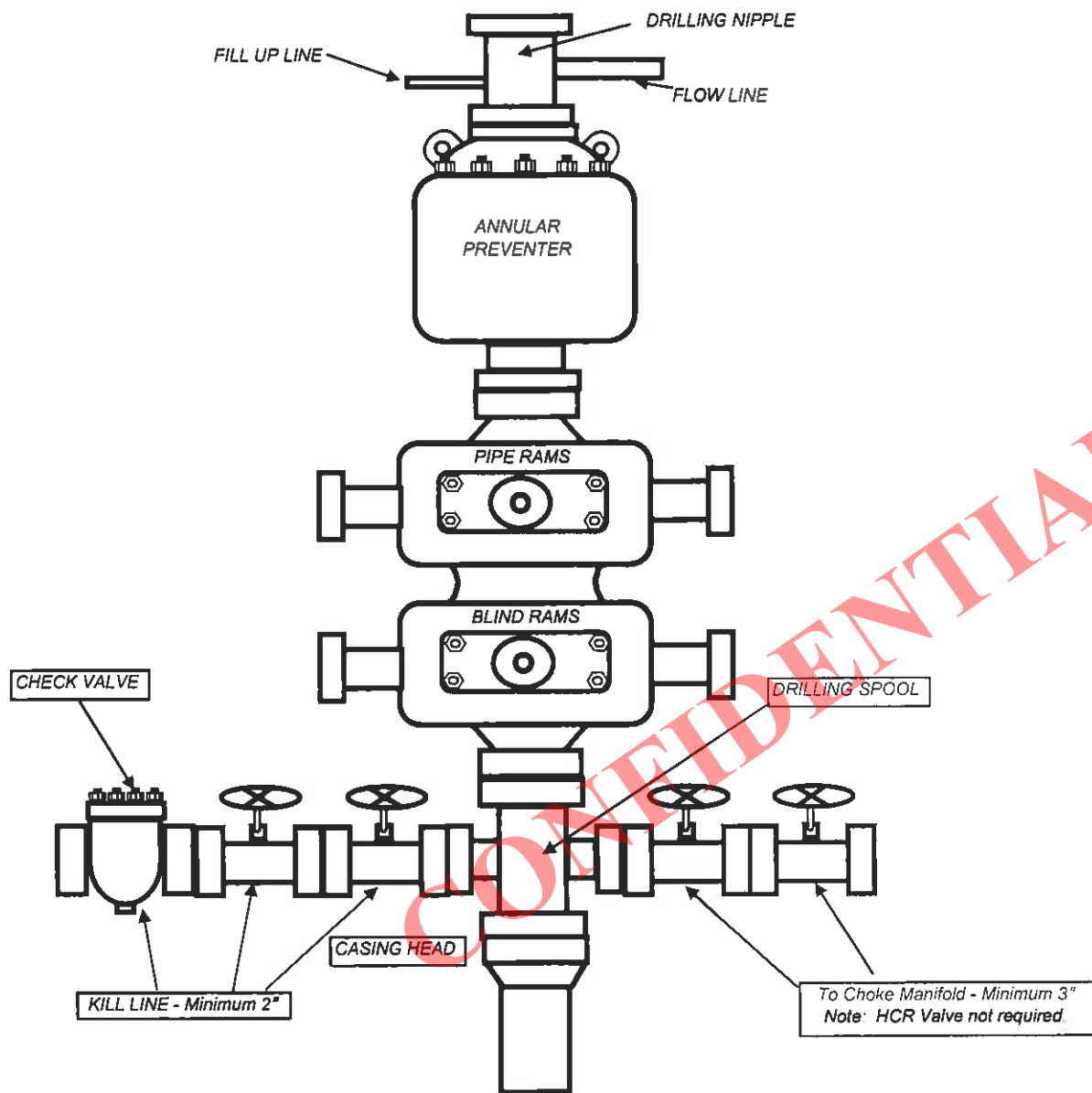
SHEET 1 OF 2

UNITAH ENGINEERING & LAND SURVEYING  
35 SOUTH - 200 EAST • 435 • 739-1317  
VERNAL, UTAH - 84073

SCALE	NO SCALE	DATE	05-29-13
PARTY	C.R. A.W. B.L.B.	REFERENCES	G.L.O. PLAT
WEATHER	WARM	FILE	5 4 0 6 7 - A

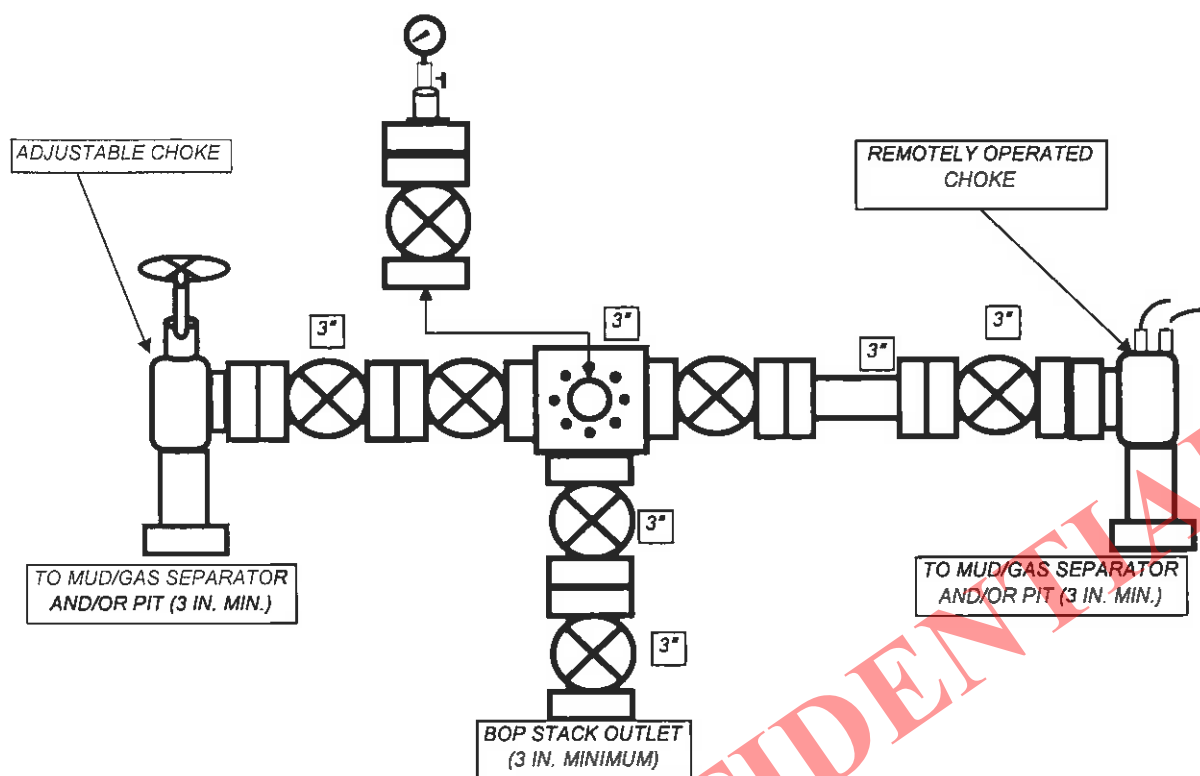
## BILL BARRETT CORPORATION

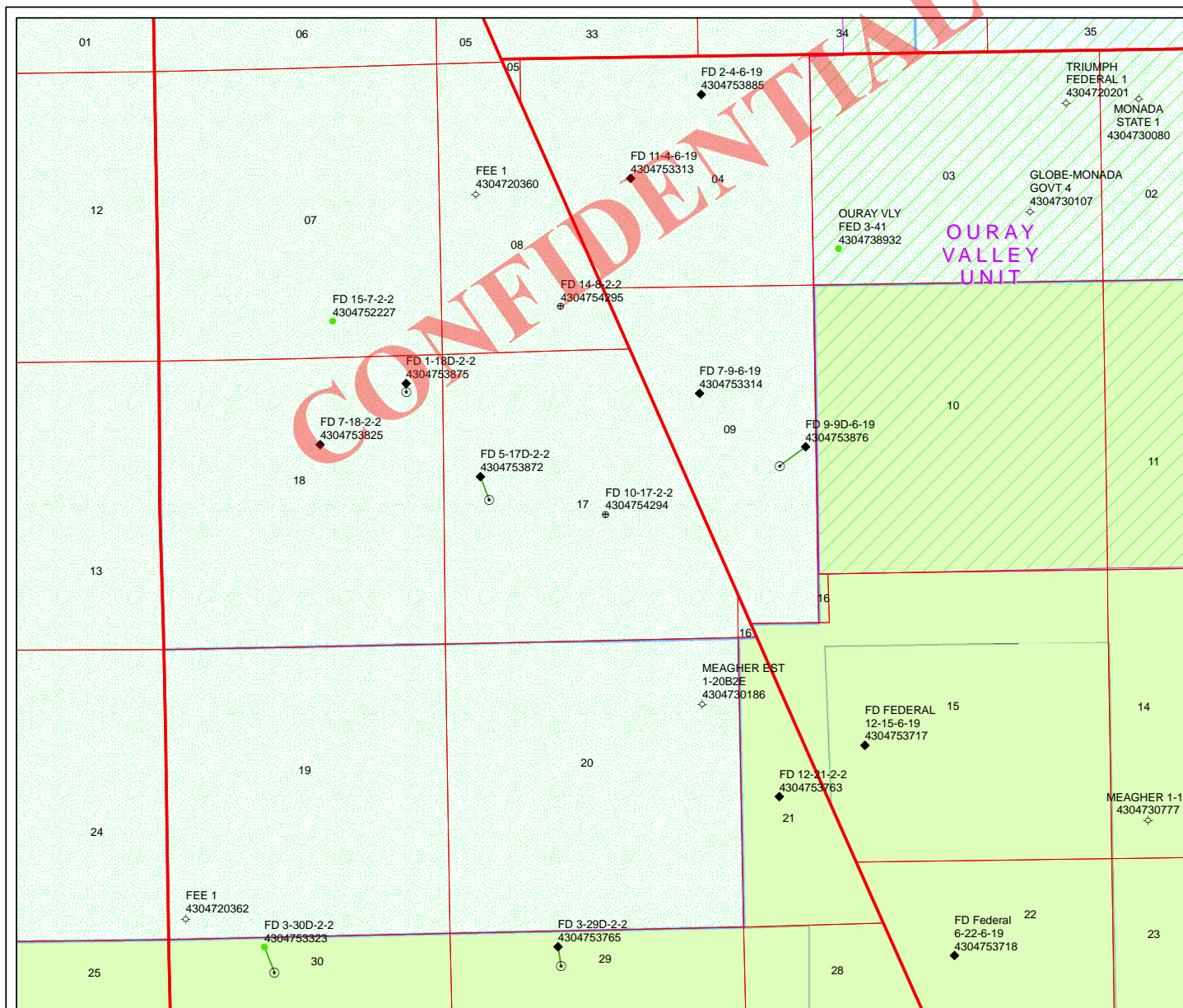
### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



## BILL BARRETT CORPORATION

### TYPICAL 5,000 p.s.i. CHOKE MANIFOLD





API Number: 4304754294

Well Name: FD 10-17-2-2

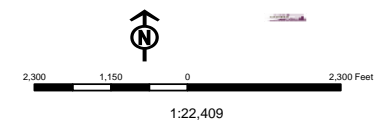
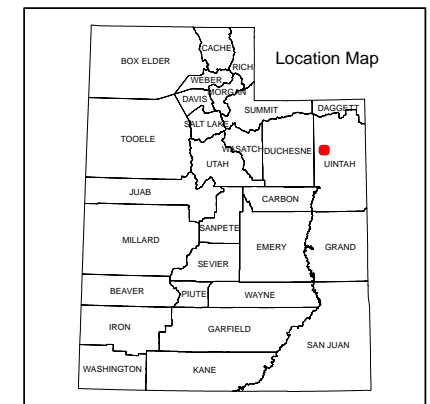
Township: T02.0S Range: R02.0E Section: 17 Meridian: U

Operator: BILL BARRETT CORP

Map Prepared: 2/14/2014  
Map Produced by Diana Mason

Wells Query		Units	
Status		STATUS	
APD - Approved Permit		ACTIVE	
DRL - Spudded (Drilling Commenced)		EXPLORATORY	
GIW - Gas Injection		GAS STORAGE	
GS - Gas Storage		NF PP OIL	
LOC - New Location		NF SECONDARY	
OPS - Operation Suspended		PI OIL	
PA - Plugged Abandoned		PP GAS	
PGW - Producing Gas Well		PP GEOTHERML	
PQW - Producing Oil Well		PP OIL	
SGW - Shut-in Gas Well		SECONDARY	
SWW - Shut-in Oil Well		TERMINATED	
TA - Temp. Abandoned			
TW - Test Well			
WOW - Water Disposal			
WW - Water Injection Well			
WSW - Water Supply Well			

Fields	
STATUS	
Unknown	
ABANDONED	
ACTIVE	
COMBINED	
INACTIVE	
STORAGE	
TERMINATED	



Well Name	BILL BARRETT CORP FD 10-17-2-2 43047542940000			
String	Cond	Surf	Prod	
Casing Size(")	16.000	8.625	5.500	
Setting Depth (TVD)	80	1500	10057	
Previous Shoe Setting Depth (TVD)	0	80	1500	
Max Mud Weight (ppg)	8.7	8.7	9.5	
BOPE Proposed (psi)	0	1000	5000	
Casing Internal Yield (psi)	1000	2950	7740	
Operators Max Anticipated Pressure (psi)	4968		9.5	

Calculations	Cond String	16.000	"
Max BHP (psi)	.052*Setting Depth*MW=	36	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	26	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	18	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	18	NO
Required Casing/BOPE Test Pressure=		80	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

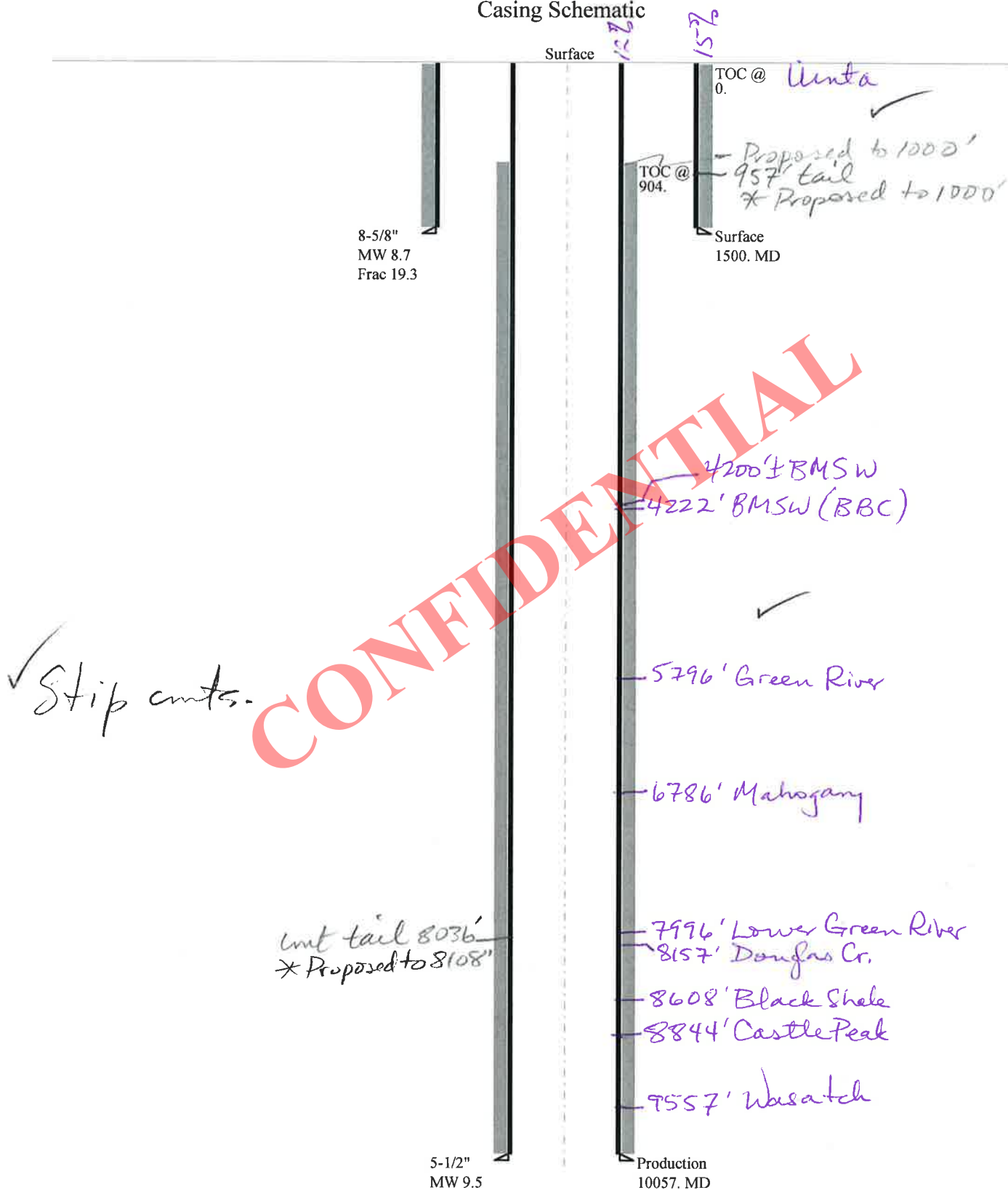
Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	678	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	499	YES rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	349	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	367	NO OK
Required Casing/BOPE Test Pressure=		1500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		80	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	4968	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3761	YES 5M BOPE with annular, dbl rams, kill lines, drilling spool
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2755	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3085	NO OK
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047542940000 FD 10-17-2-2

Casing Schematic



Well name:	<b>43047542940000 FD 10-17-2-2</b>	
Operator:	<b>BILL BARRETT CORP</b>	
String type:	Surface	Project ID: 43-047-542974
Location:	UINTAH COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.700 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 95 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

**Burst:**

Design factor 1.00

Cement top: Surface

**Burst**

Max anticipated surface pressure: 1,320 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 1,500 psi  
  
Annular backup: 1.50 ppg

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Non-directional string.**

Tension is based on buoyed weight.  
Neutral point: 1,304 ft

**Re subsequent strings:**

Next setting depth: 10,057 ft  
Next mud weight: 9.500 ppg  
Next setting BHP: 4,963 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 1,500 ft  
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1500	8.625	24.00	J-55	ST&C	1500	1500	7.972	7722

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	678	1370	2.021	1383	2950	2.13	31.3	244	7.80 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801-538-5357  
FAX: 801-359-3940

Date: February 27, 2014  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.7 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

43047542940000 FD 10-17-2-2

Operator: **BILL BARRETT CORP**

String type: Production

Project ID:

43-047-542974

Location: UINTAH COUNTY

**Design parameters:****Collapse**Mud weight: 9.500 ppg  
Design is based on evacuated pipe.**Minimum design factors:****Collapse:**

Design factor 1.125

**Environment:**H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 215 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft**Burst:**

Design factor 1.00

Cement top: 904 ft

**Burst**Max anticipated surface  
pressure: 2,751 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 4,963 psi

No backup mud specified.

**Tension:**8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)**Non-directional string.**

Tension is based on buoyed weight.

Neutral point: 8,608 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10057	5.5	17.00	I-80	LT&C	10057	10057	4.767	112840
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4963	6290	1.267	4963	7740	1.56	146.3	320	2.19 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & MiningPhone: 801 538-5357  
FAX: 801-359-3940Date: February 27, 2014  
Salt Lake City, Utah**Remarks:**

Collapse is based on a vertical depth of 10057 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop &amp; Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

# **ON-SITE PREDRILL EVALUATION**

## **Utah Division of Oil, Gas and Mining**

**Operator** BILL BARRETT CORP  
**Well Name** FD 10-17-2-2  
**API Number** 43047542940000 **APD No** 9393 **Field/Unit** MOFFAT CANAL  
**Location: 1/4,1/4 NWSE Sec 17 Tw 2.0S Rng 2.0E 2312 FSL 2935 FWL**  
**GPS Coord (UTM)** 602605 4462688 **Surface Owner** JESSE AND MARGIE CLARK

### **Participants**

Jim Burns (permit contractor), Zack Gardner (BBC), Terra Miller (landman), Cody Rich (surveyor), Jake Woodland (BBC landman)

### **Regional/Local Setting & Topography**

This proposed well site is north and east of Gusher, Utah which is approximately midway between the much larger towns of Vernal and Roosevelt, Utah. The terrain here is made up of small scattered hills and dry washes. The soil is mostly quite permeable sandy loam which supports sage brush and various desert grasses. Drainage is generally to the south. This well site sits on a low flat just south of a irrigation canal. The site is used for cattle pasture and immediately below the location there is a stock water pond.

### **Surface Use Plan**

**Current Surface Use**  
Grazing

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.85	<b>Width 295 Length 400</b>	Offsite	DUCHR

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### **Environmental Parameters**

**Affected Floodplains and/or Wetlands** Y  
Appears to have seasonal high ground water

**Flora / Fauna**  
Russian olive and sparse pasture grass  
  
Cattle pasture

**Soil Type and Characteristics**  
Loam

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required? N****Berm Required? Y**

Stock pond just below location to south

**Erosion Sedimentation Control Required? N****Paleo Survey Run? N    Paleo Potential Observed? N    Cultural Survey Run?    Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking****Distance to Groundwater (feet)** 20**Distance to Surface Water (feet)** 20**Dist. Nearest Municipal Well (ft)** >5280 0**Distance to Other Wells (feet)** >1320 0**Native Soil Type** Mod permeability 10**Fluid Type** Fresh Water 5**Drill Cuttings** Normal Rock 0**Annual Precipitation (inches)** 0**Affected Populations****Presence Nearby Utility Conduits** Unknown 10**Final Score** 65 1 Sensitivity Level**Characteristics / Requirements**

Due to high ground water a closed loop drilling system must be used.

**Closed Loop Mud Required? Y    Liner Required?    Liner Thickness    Pit Underlayment Required?****Other Observations / Comments**Richard Powell  
Evaluator2/20/2014  
Date / Time

# Application for Permit to Drill

## Statement of Basis

### Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
9393	43047542940000	LOCKED	OW	P	No
Operator	BILL BARRETT CORP		Surface Owner-APD	JESSE AND MARGIE CLARK	
Well Name	FD 10-17-2-2		Unit		
Field	MOFFAT CANAL		Type of Work	DRILL	
Location	NWSE 17 2S 2E U 2312 FSL (UTM) 602602E 4462693N		2935 FWL GPS Coord		

#### Geologic Statement of Basis

Bill Barrett proposes to set 80 feet of conductor and 1,500 feet of surface casing at this location. The entire surface hole will be drilled with fresh water mud. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,200'. A search of Division of Water Rights records shows 6 water wells within a 10,000 foot radius of the center of Section 17. The wells range from 80 to 500 feet in depth with listed uses as domestic, irrigation and stock watering. The wells probably produce water from near-surface alluvium and the Uinta Formation. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to or above the base of the moderately saline ground water in order to isolate it from fresher waters uphole.

Brad Hill  
APD Evaluator

3/4/2014  
Date / Time

#### Surface Statement of Basis

This proposed well is on fee surface with fee minerals. The surface owners Jessie and Margie Clark were invited but did not attend this onsite inspection and stated that they had no concerns with this site. However, at the onsite the surface owners son Doyle Clark was in attendance and stated several concerns. First, Doyle asked that the stock water pond below the location be protected from any leaks or spills. In order to protect the pond, BBC representative Zack Gardner agreed to berm the entire location in addition to a tank berm. The placement of gates where the access road crosses property lines was also discussed and Mr. Gardner agreed that BBC would place a double gate at the fence crossing. This well site sits to the east and a little north of Gusher, Utah. The site is used for cattle pasture. There is an irrigation canal running along the north side of the location and some wetland area vegetation on this site and it appears there is high ground water at this site. For this reason a closed loop mud system must be used.

Richard Powell  
Onsite Evaluator

2/20/2014  
Date / Time

#### Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A closed loop mud circulation system is required for this location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

RECEIVED: May 05, 2014

API Well Number: 43047542940000

Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

CONFIDENTIAL

RECEIVED: May 05, 2014

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/7/2014

API NO. ASSIGNED: 43047542940000

WELL NAME: FD 10-17-2-2

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: NWSE 17 020S 020E

Permit Tech Review: ☒

SURFACE: 2312 FSL 2935 FWL

Engineering Review: ☒

BOTTOM: 2312 FSL 2935 FWL

Geology Review: ☒

COUNTY: UINTAH

LATITUDE: 40.30846

LONGITUDE: -109.79257

UTM SURF EASTINGS: 602602.00

NORTHINGS: 4462693.00

FIELD NAME: MOFFAT CANAL

LEASE TYPE: 4 - Fee

LEASE NUMBER: fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE - LPM4138148☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: 49-1645☐ RDCC Review:☒ Fee Surface Agreement☐ Intent to Commingle

Commingling Approved

## LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-106

Effective Date: 11/14/2013

Siting: 4 Wells Per 640 Acre

☐ R649-3-11. Directional DrillComments: Presite Completed  
IRR SEC:Stipulations: 5 - Statement of Basis - bhill  
12 - Cement Volume (3) - hmacdonald  
25 - Surface Casing - hmacdonald

RECEIVED: May 05, 2014



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** FD 10-17-2-2  
**API Well Number:** 43047542940000  
**Lease Number:** fee  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 5/5/2014

### Issued to:

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-106. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

### Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

Cement volume for the 5 1/2" production string shall be determined from actual hole diameter in order to place lead cement from the pipe setting depth back to 1000' MD as indicated in the submitted drilling plan and tail cement to 500' above the top of the Lower Green River.

Surface casing shall be cemented to the surface.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

### Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet

- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program  
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

### **Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

### **Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

**Approved By:**

**Approved By:**

A handwritten signature in black ink, appearing to read "J. Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> FD 10-17-2-2
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2312 FSL 2935 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 02.0E Meridian: U		<b>9. API NUMBER:</b> 43047542940000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/1/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input checked="" type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Please update the plats for this well pad as BBC has updated the pad layout to remove the pit per UDOGM request due to groundwater concerns and BBC has also re-routed the access road per the surface owner.		
<b>Accepted by the Utah Division of Oil, Gas and Mining</b> June 02, 2014  <b>Date:</b> _____ <b>By:</b>		
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/29/2014	

**BILL BARRETT CORPORATION**

## LOCATION LAYOUT FOR

FD #10-17-2-2

SECTION 17, T2S, R2E, U.S.B.&amp;M.

2312' FSL 2935' FWL

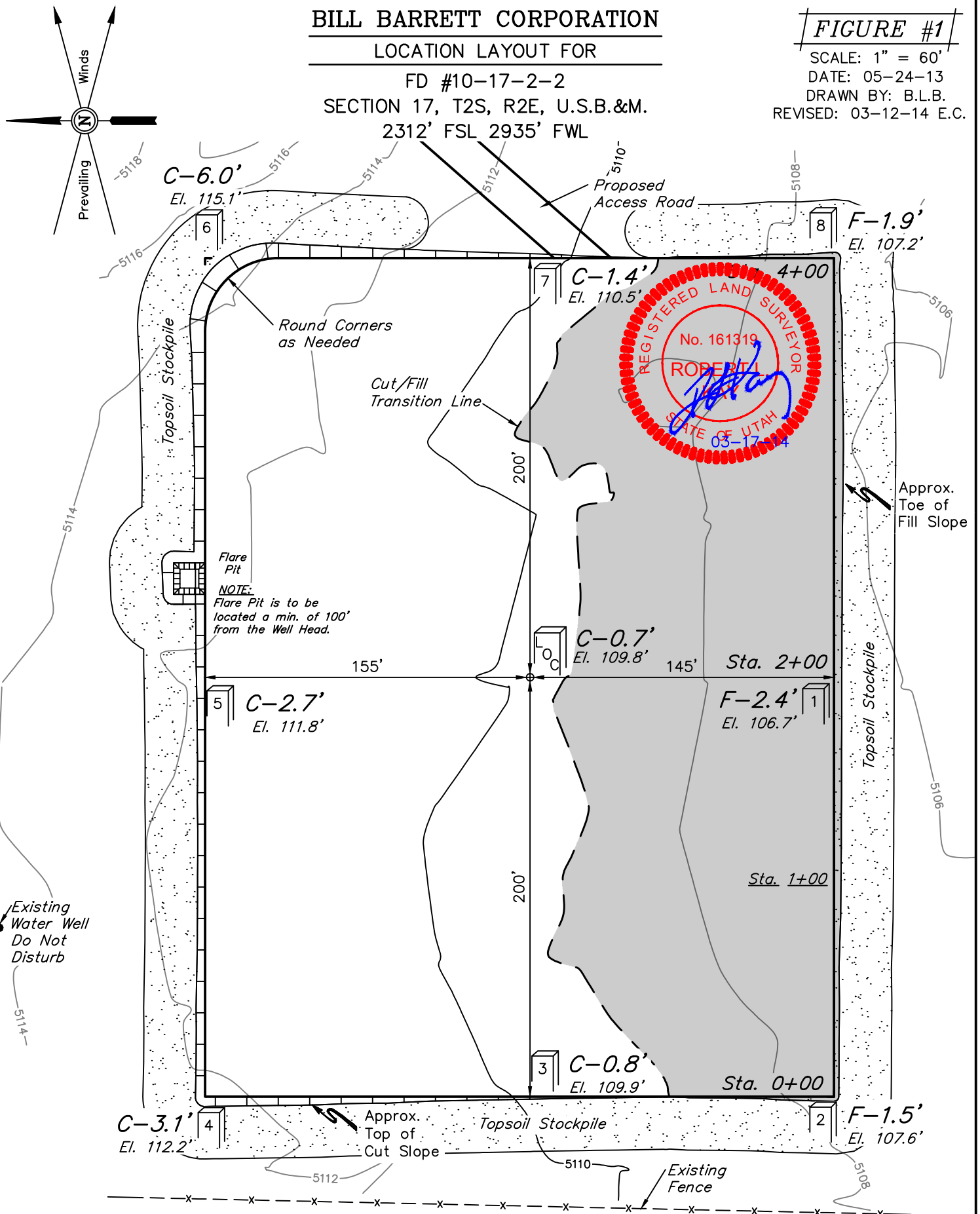
**FIGURE #1**

SCALE: 1" = 60'

DATE: 05-24-13

DRAWN BY: B.L.B.

REVISED: 03-12-14 E.C.



Elev. Ungraded Ground At Loc. Stake = 5109.8'  
 FINISHED GRADE ELEV. AT LOC. STAKE = 5109.1'

UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: May. 29, 2014

**BILL BARRETT CORPORATION****TYPICAL CROSS SECTIONS FOR**

FD #10-17-2-2

SECTION 17, T2S, R2E, U.S.B.&amp;M.

2312' FSL 2935' FWL

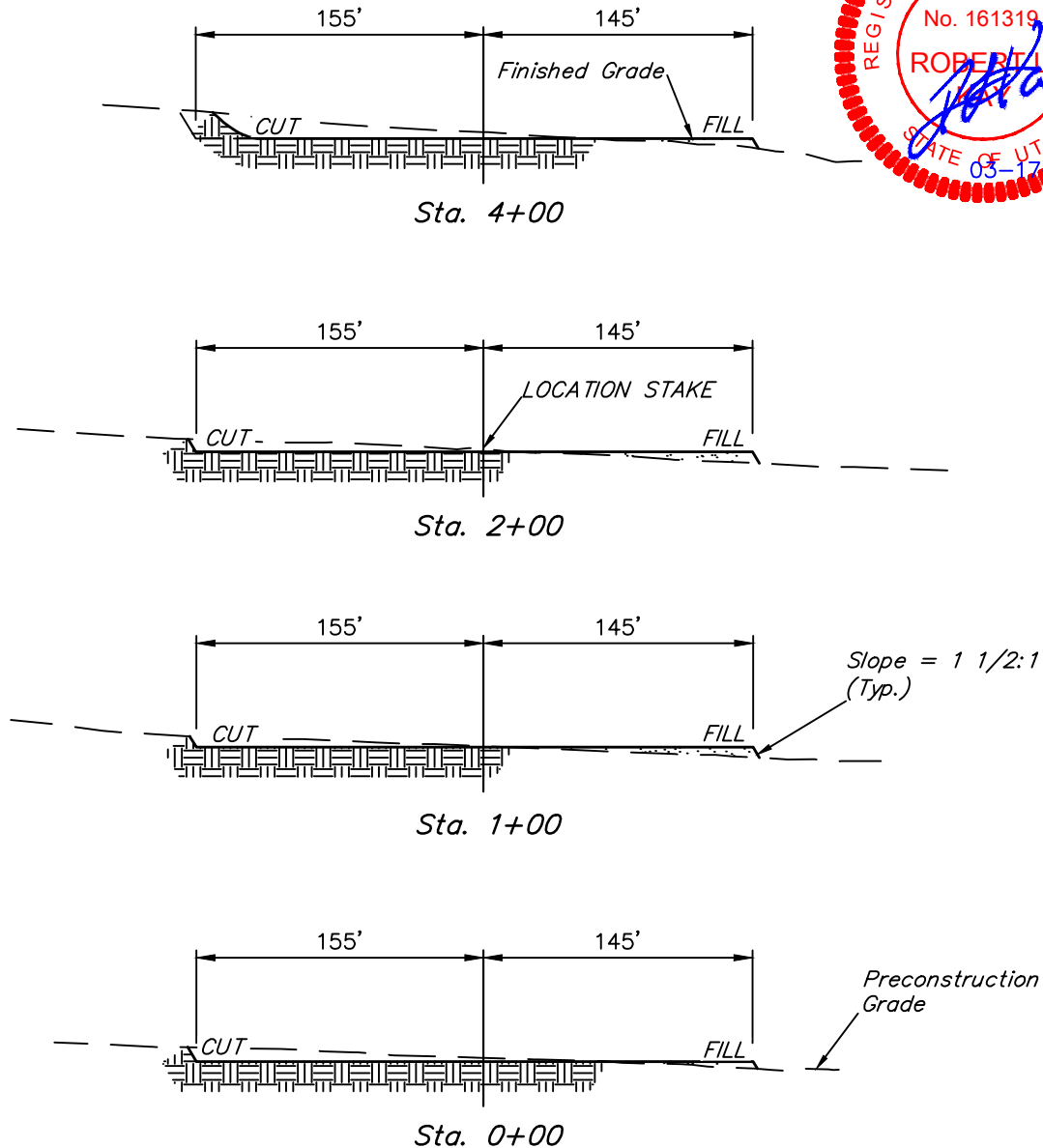
**FIGURE #2**

1" = 40'  
X-Section  
Scale  
1" = 100'

DATE: 05-24-13

DRAWN BY: B.L.B.

REVISED: 03-12-14 E.C.

**NOTE:**

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 4.792 ACRES  
ACCESS ROAD DISTURBANCE = ± 2.982 ACRES  
PIPELINE DISTURBANCE = ± 3.004 ACRES  
TOTAL = ± 10.778 ACRES

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping = 2,310 Cu. Yds.  
Remaining Location = 3,250 Cu. Yds.  
TOTAL CUT = 5,560 CU.YDS.  
FILL = 3,250 CU.YDS.

EXCESS MATERIAL = 2,310 Cu. Yds.  
Topsoil = 2,310 Cu. Yds.

EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: May. 29, 2014

# BILL BARRETT CORPORATION

## TYPICAL RIG LAYOUT FOR

FD #10-17-2-2

SECTION 17, T2S, R2E, U.S.B.&M.

2312' FSL 2935' FWL

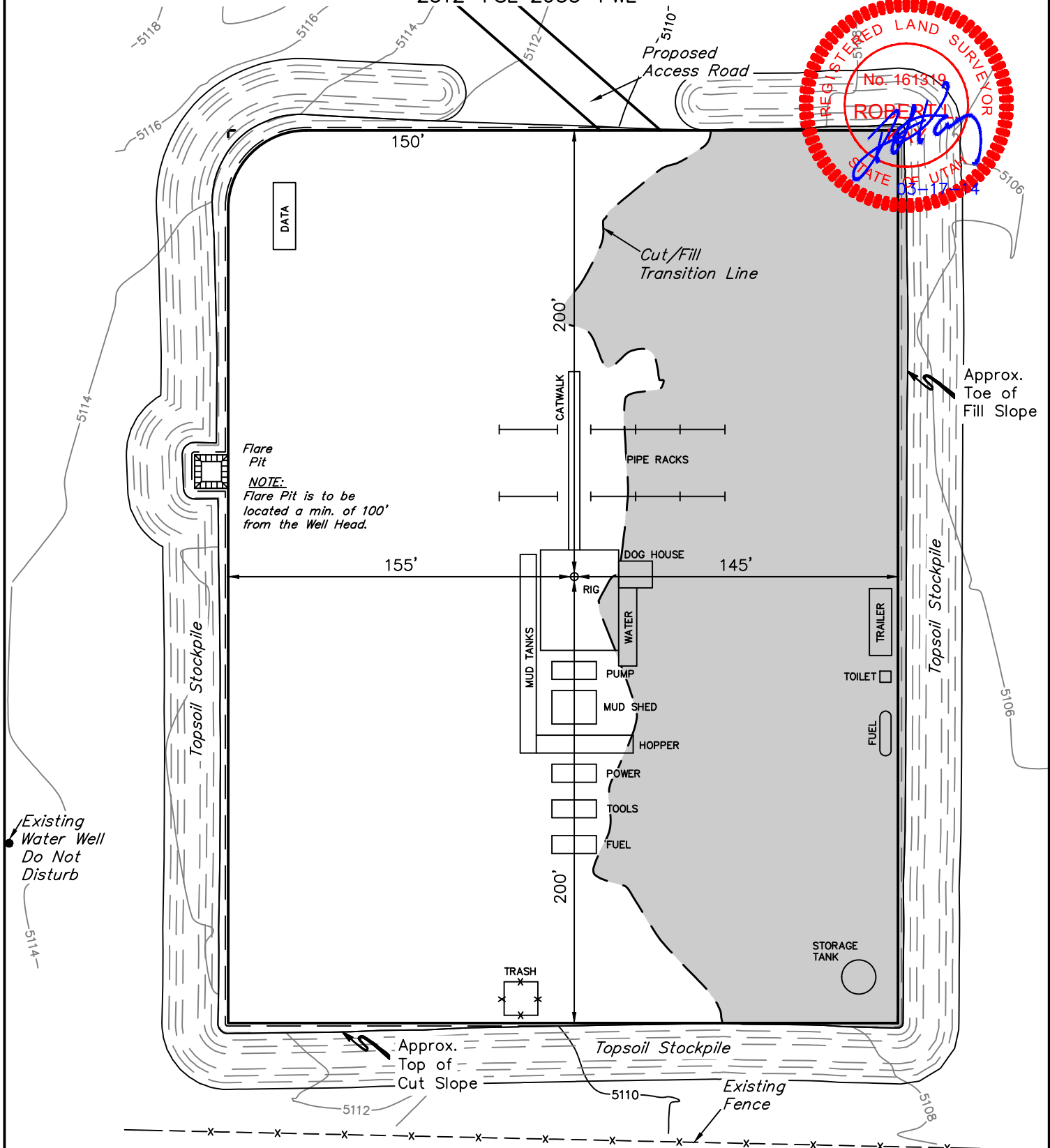
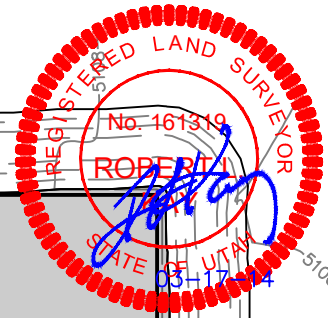
FIGURE #3

SCALE: 1" = 60'

DATE: 05-24-13

DRAWN BY: B.L.B.

REVISED: 03-12-14 E.C.



UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

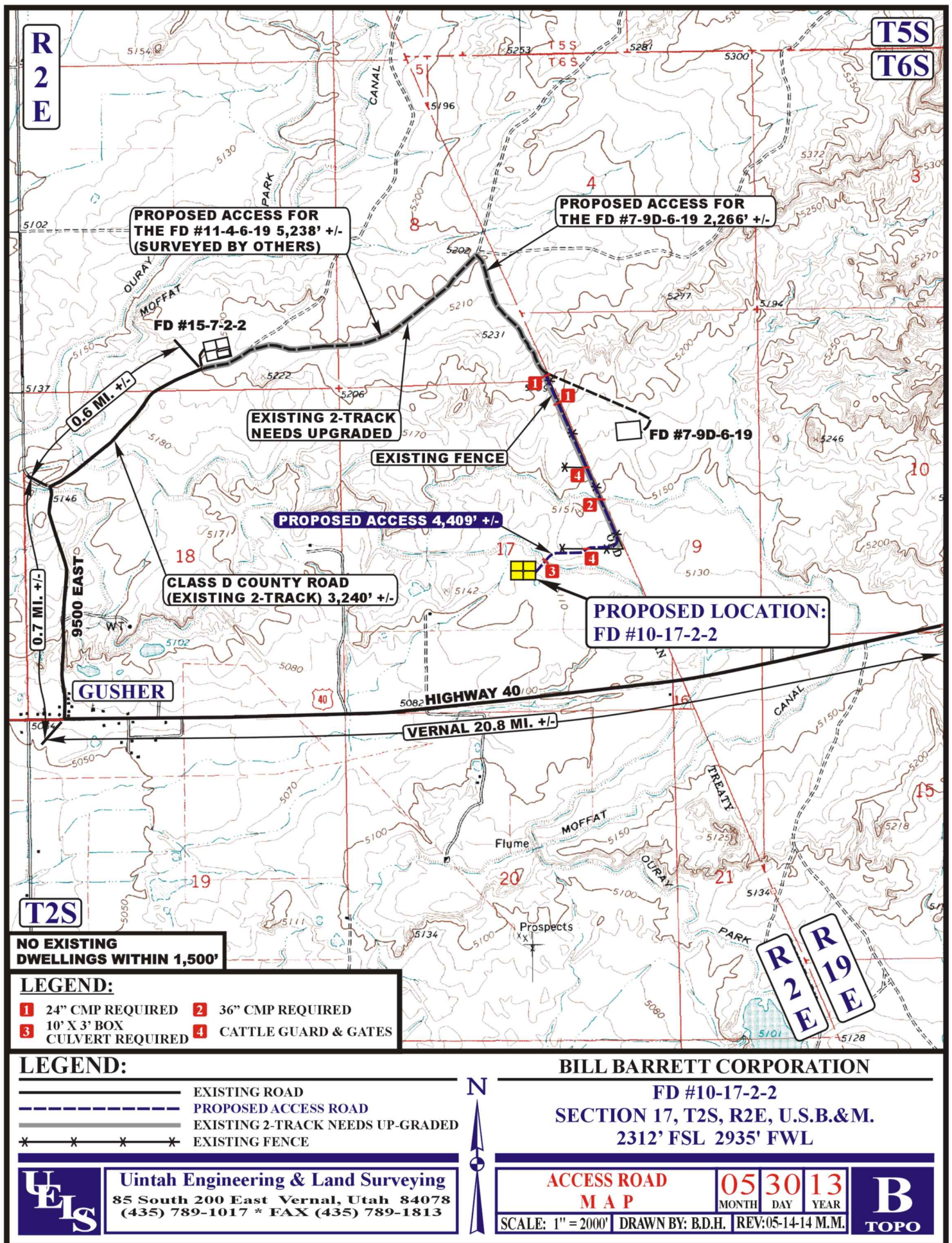
RECEIVED: May. 29, 2014

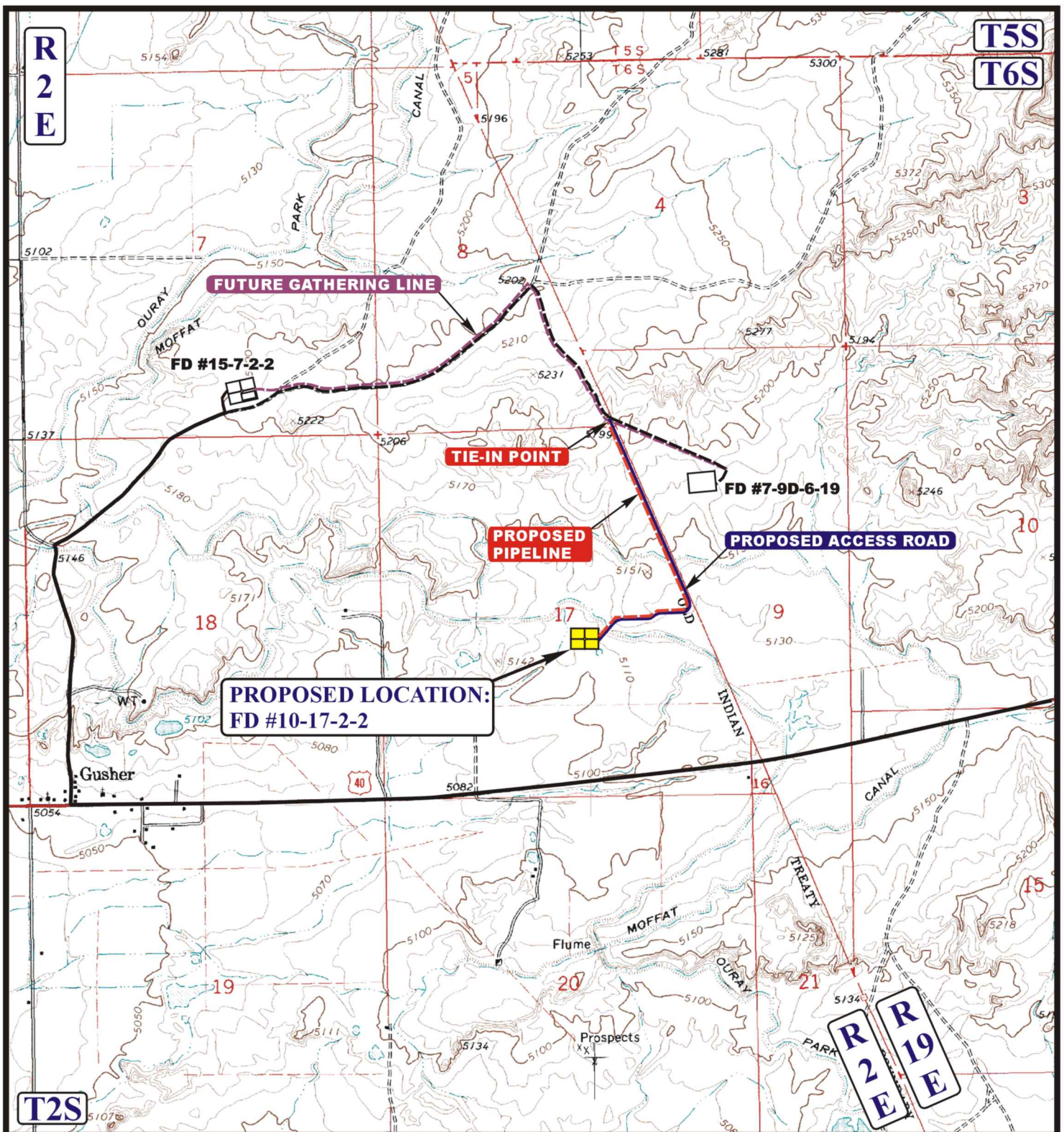
**BILL BARRETT CORPORATION**  
**FD #10-17-2-2**  
**SECTION 10, T2S, R2E, S.L.B.&M.**

PROCEED IN A WESTERLY, THEN SOUTHWESTERLY, THEN WESTERLY DIRECTION FROM VERNAL, UTAH ALONG HIGHWAY 40 APPROXIMATELY 0.8 MILES TO THE JUNCTION OF THIS ROAD AND 9500 EAST TO THE NORTH; TURN RIGHT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING CLASS "D" COUNTY ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 3,240' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE FD #11-4-6-19 TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 5,238' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD FOR THE FD #7-9D-6-19 TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 2,266' TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, THEN WESTERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 4,409' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 24.4 MILES.







**APPROXIMATE TOTAL PIPELINE DISTANCE = 4,354' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - PROPOSED PIPELINE
- - - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)



**BILL BARRETT CORPORATION**

**FD #10-17-2-2**  
**SECTION 17, T2S, R2E, U.S.B.&M.**  
**2312' FSL 2935' FWL**



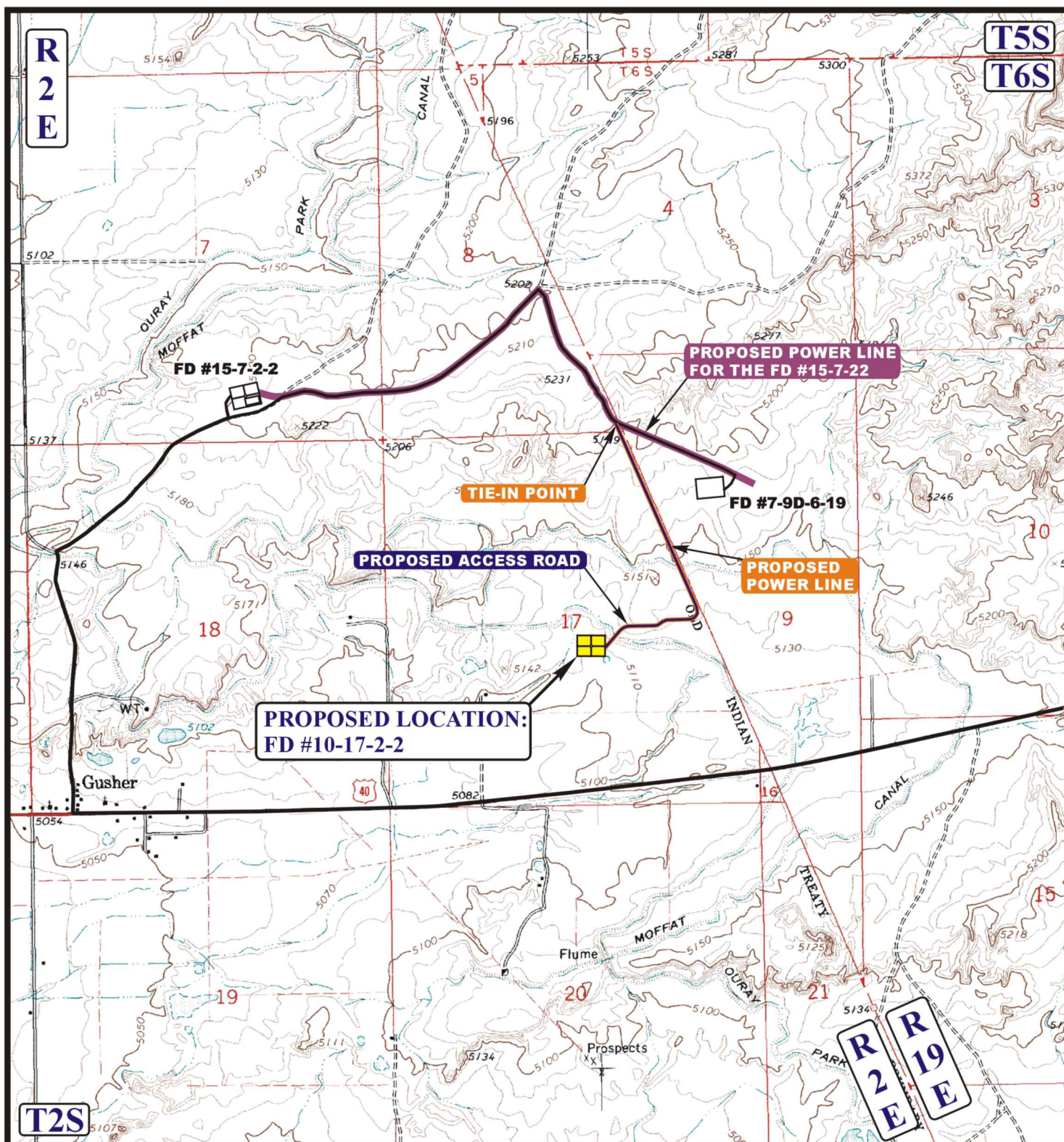
**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC**  
**MAP**

**05 30 13**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: B.D.H. REV: 02-27-14 M.M.





APPROXIMATE TOTAL POWER LINE DISTANCE = 4,409' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- PROPOSED POWER LINE
- PROPOSED POWER LINE (SERVICING OTHER WELLS)



**BILL BARRETT CORPORATION**

FD #10-17-2-2  
SECTION 17, T2S, R2E, U.S.B.&M.  
2312' FSL 2935' FWL



**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC  
MAP**

**05 30 13**  
MONTH DAY YEAR

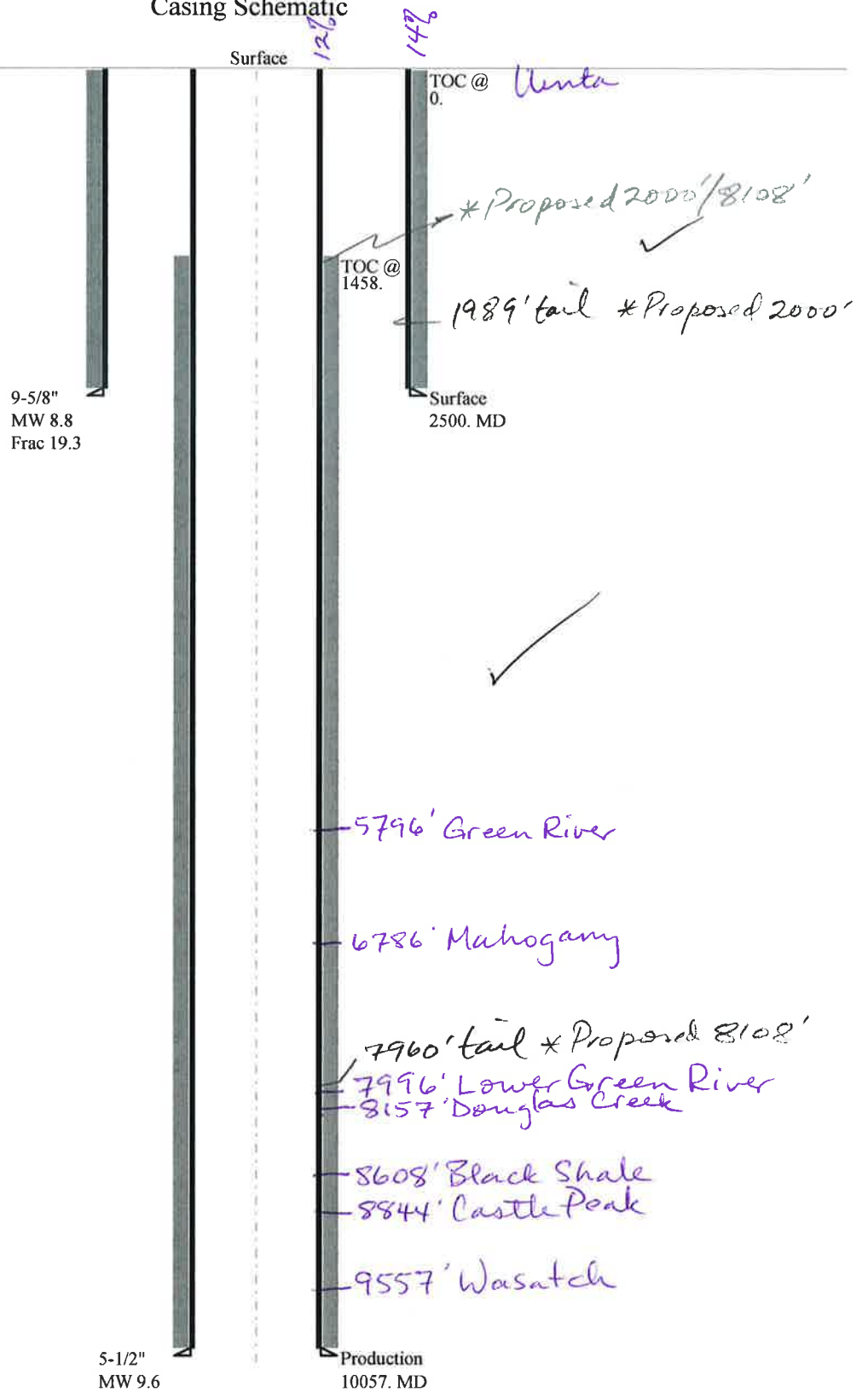
SCALE: 1" = 2000' DRAWN BY: B.D.H. REV: 02-27-14 M.M.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> FD 10-17-2-2
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2312 FSL 2935 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 02.0E Meridian: U		<b>9. API NUMBER:</b> 43047542940000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/1/2014  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE  <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION         </div> </div>	
OTHER: <span style="border: 1px solid black; padding: 2px;">change to drilling plan</span>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  Attached, please find the updated drilling plan changing the surface casing size and set depth. Please contact Brady Riley with questions to the revisions.		
<div style="color: red; font-weight: bold;">             Approved by the              Utah Division of              Oil, Gas and Mining              June 05, 2014           </div> <div style="color: red; font-weight: bold;">             Date: _____              By: <u>DeK Duff</u> </div>		
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/29/2014	

43047542940000 FD 10-17-2-2rev

Casing Schematic



Well name:	<b>43047542940000 FD 10-17-2-2rev</b>	
Operator:	<b>BILL BARRETT CORP</b>	Project ID:
String type:	Surface	43-047-542974
Location:	UINTAH COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.800 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 109 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 2,200 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP: 2,500 psi  
  
Annular backup: 1.50 ppg

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 2,174 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 10,057 ft  
Next mud weight: 9.600 ppg  
Next setting BHP: 5,015 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,500 ft  
Injection pressure: 2,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2500	9.625	36.00	J-55	ST&C	2500	2500	8.796	21730
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1143	2020	1.767	2305	3520	1.53	78.3	394	5.03 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: June 5, 2014  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 2500 ft, a mud weight of 8.8 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43047542940000 FD 10-17-2-2rev</b>	
Operator:	<b>BILL BARRETT CORP</b>	Project ID:
String type:	Production	43-047-542974
Location:	UINTAH COUNTY	

**Design parameters:****Collapse**

Mud weight: 9.600 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 215 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 1,458 ft

**Burst**

Max anticipated surface pressure: 2,803 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 5,015 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

**Non-directional string.**

Tension is based on buoyed weight.  
Neutral point: 8,593 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10057	5.5	17.00	P-110	LT&C	10057	10057	4.767	66243

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5015	7480	1.491	5015	10640	2.12	146.1	445	3.05 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: June 5, 2014  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 10057 ft, a mud weight of 9.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

BOPE REVIEW

BILL BARRETT    FD 10-17-2-2rev    API 43-047-54294-0000

INPUT

Well Name

BILL BARRETT    FD 10-17-2-2rev    API 43-047-54294-0000

Casing Size (")

String 1    9 5/8    String 2    5 1/2

Setting Depth (TVD)

2500    10057

Previous Shoe Setting Depth (TVD)

40.5    2500

Max Mud Weight (ppg)

8.8    9.6

BOPE Proposed (psi)

500    5000

Casing Internal Yield (psi)

3520    10640

Operators Max Anticipated Pressure (psi)

4968    9.5 ppg

Calculations

String 1    9 5/8 "    String 2

Max BHP [psi]    .052\*Setting Depth\*MW =    1144

MASP (Gas) [psi]    Max BHP-(0.12\*Setting Depth) =    844    BOPE Adequate For Drilling And Setting Casing at Depth?    NO    diverter or rotating head

MASP (Gas/Mud) [psi]    Max BHP-(0.22\*Setting Depth) =    594    NO

Pressure At Previous Shoe    Max BHP-.22\*(Setting Depth - Previous Shoe Depth) =    603    NO    \*Can Full Expected Pressure Be Held At Previous Shoe?

Required Casing/BOPE Test Pressure    2464 psi

\*Max Pressure Allowed @ Previous Casing Shoe =    41 psi    \*Assumes 1psi/ft frac gradient

Calculations

String 2    5 1/2 "    String 2

Max BHP [psi]    .052\*Setting Depth\*MW =    5020

BOPE Adequate For Drilling And Setting Casing at Depth?

MASP (Gas) [psi]    Max BHP-(0.12\*Setting Depth) =    3814    YES

MASP (Gas/Mud) [psi]    Max BHP-(0.22\*Setting Depth) =    2808    YES    5M, drilling spool, blind & pipe rams, choke & kill lines

Pressure At Previous Shoe    Max BHP-.22\*(Setting Depth - Previous Shoe Depth) =    3358    NO    \*Can Full Expected Pressure Be Held At Previous Shoe?

Required Casing/BOPE Test Pressure    5000 psi

\*Max Pressure Allowed @ Previous Casing Shoe =    2500 psi    \*Assumes 1psi/ft frac gradient

**BILL BARRETT CORPORATION**  
**DRILLING PLAN REVISED**

**FD 10-17-2-2**

NWSE, 2312' FSL and 2935' FWL, Section 17, T2S-R2E, USB&M (surface hole)

NWSE, 2312' FSL and 2935' FWL, Section 17, T2S-R2E, USB&M (bottom hole)

Uintah County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth – MD/TVD</u></b>
Green River	5,796'
Mahogany	6,786'
Lower Green River*	7,996'
Douglas Creek	8,157'
Black Shale	8,608'
Castle Peak	8,844'
Wasatch*	9,557'
TD	10,057'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 4,222'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 2500'	Rotating Head or Diverter (may pre-set 9-5/8" with smaller rig)
2500' – TD	11" 10000# Double Ram Type BOP (Pipe/Blind) 11" 10000# Single Pipe Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	2,500'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
Drilling Program  
FD 10-17-2-2 **REVISED**  
Uintah County, Utah

## 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: <b>360</b> sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: <b>210</b> sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 2000
5 1/2" Production Casing	Lead: <b>1010</b> sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 2000' Tail: <b>530</b> sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 8108'

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2,500'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,500' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

## 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

## 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4968 psi\* and maximum anticipated surface pressure equals approximately 2755 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
FD 10-17-2-2 **REVISED**  
Uintah County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction: June 2014  
Spud: June 2014  
Duration: 15 days drilling time  
6 days completion time

**12. Appendix A**

If we pre-set the 9-5/8" casing on this well with a spudder rig, the following equipment shall be in place and operational during air/gas drilling:

- Blooie line discharge will be a minimum of **45'** from well bore and securely anchored
- Mud circulating equipment and a minimum of 200 bbls of water will be on location (Volume sufficient to maintain the capacity of the hole and circulating tanks or pits).
- No igniter will be on blooie line while drilling the surface hole
- The spudder/air rig air compressor will be located on the rig



# Bill Barrett Corporation

## EAST BLUEBELL CEMENT VOLUMES

**Well Name:** FD 10-17-2-2 REVISED

### Surface Hole Data:

Total Depth:	2,500'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	1096.1	ft <sup>3</sup>
Lead Fill:	2,000'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	360
--------------	-----

Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	2,000'	

# SK's Tail:	210
--------------	-----

### Production Hole Data:

Total Depth:	10,057'
Top of Cement:	2,000'
Top of Tail:	8,108'
OD of Hole:	8.750"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	2314.3	ft <sup>3</sup>
Lead Fill:	6,108'	
Tail Volume:	738.5	ft <sup>3</sup>
Tail Fill:	1,949'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	1010
# SK's Tail:	530

<b>FD 10-17-2-2 REVISED Proposed Cementing Program</b>
--------------------------------------------------------

<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (2000' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 2,000'
	Volume: 195.22 bbl
	<b>Proposed Sacks: 360 sks</b>
<b>Tail Cement - (TD - 2000')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 2,000'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (8108' - 2000')</b>	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 2,000'
	Calculated Fill: 6,108'
	Volume: 412.16 bbl
	<b>Proposed Sacks: 1010 sks</b>
<b>Tail Cement - (10057' - 8108')</b>	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 8,108'
	Calculated Fill: 1,949'
	Volume: 131.53 bbl
	<b>Proposed Sacks: 530 sks</b>

### 3. PRESSURE CONTROL EQUIPMENT – Schematic Attached

**A. Type:** Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer. The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. Two (2) pipe rams (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) manual and hydraulic choke line valves (3-inch minimum).
6. Remote kill line (2-inch minimum).
7. Two (2) chokes with one remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Wear ring in casing head.
13. Pressure gauge on choke manifold.
14. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 10,000 psi

#### **C. Testing Procedure:**

##### Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

##### Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure

will be maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

**E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

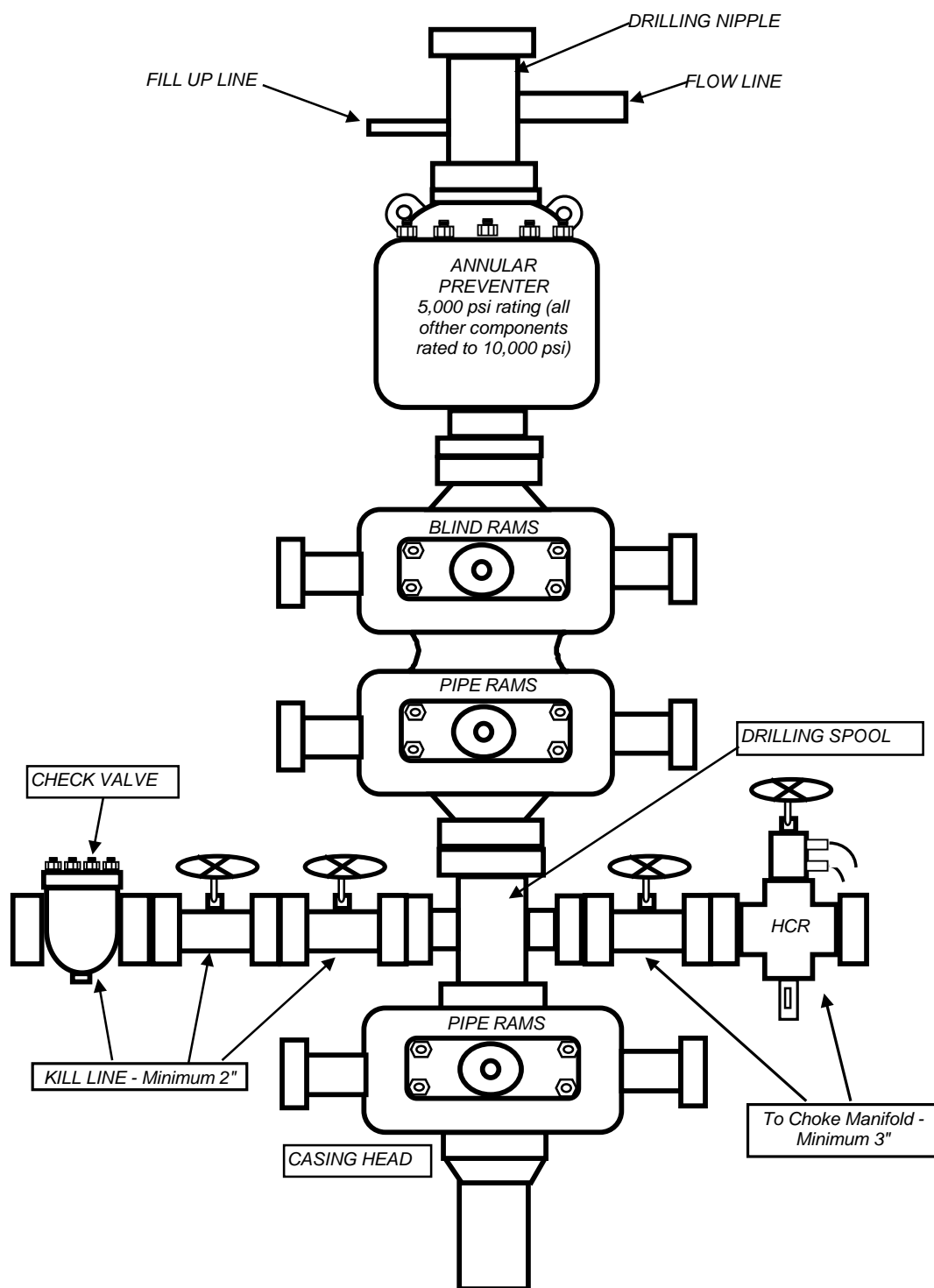
**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The choke manifold and BOP extension rods with hand wheels will be located outside the rig sub-structure. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

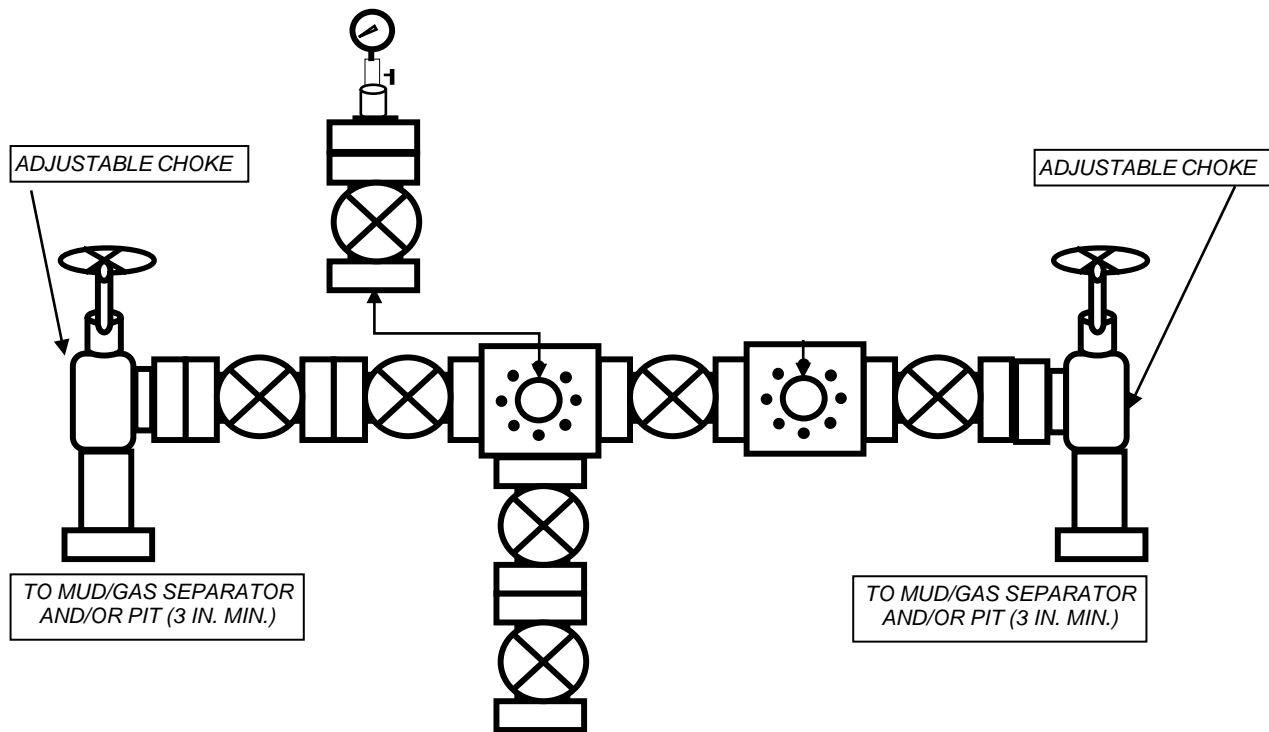
# BILL BARRETT CORPORATION

## TYPICAL 10,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

## TYPICAL 10,000 p.s.i. CHOKE MANIFOLD



ALL EQUIPMENT IS 3" (MINIMUM).

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> FD 10-17-2-2
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2312 FSL 2935 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 02.0E Meridian: U		<b>9. API NUMBER:</b> 43047542940000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/9/2014</b>	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input checked="" type="checkbox"/> OTHER OTHER: <input style="width: 100px;" type="text" value="5000# BOPE"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BBC is requesting permission to change to 5000# BOPE. See attached, updated drilling plan.

**Approved by the  
 Utah Division of  
 Oil, Gas and Mining**  
 June 12, 2014

Date: \_\_\_\_\_

By: Dark Duff

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/9/2014	

**BILL BARRETT CORPORATION**  
**DRILLING PLAN REVISED**

**FD 10-17-2-2**

NWSE, 2312' FSL and 2935' FWL, Section 17, T2S-R2E, USB&M (surface hole)

NWSE, 2312' FSL and 2935' FWL, Section 17, T2S-R2E, USB&M (bottom hole)

Uintah County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth – MD/TVD</u></b>
Green River	5,796'
Mahogany	6,786'
Lower Green River*	7,996'
Douglas Creek	8,157'
Black Shale	8,608'
Castle Peak	8,844'
Wasatch*	9,557'
TD	10,057'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 4,222'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 2500'	Rotating Head or Diverter (may pre-set 9-5/8" with smaller rig)
2500' – TD	<span style="color: red;">11" 5000# Ram Type BOP</span> <span style="color: red;">11" 5000# Annular BOP</span>
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	2,500'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
 Drilling Program  
 FD 10-17-2-2 **REVISED**  
 Uintah County, Utah

## 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 360 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 2000
5 1/2" Production Casing	Lead: 1010 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 2000' Tail: 530 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 8108'

## 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2,500'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,500' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

## 7. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

## 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4968 psi\* and maximum anticipated surface pressure equals approximately 2755 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
FD 10-17-2-2 **REVISED**  
Uintah County, Utah

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction: June 2014  
Spud: June 2014  
Duration: 15 days drilling time  
6 days completion time

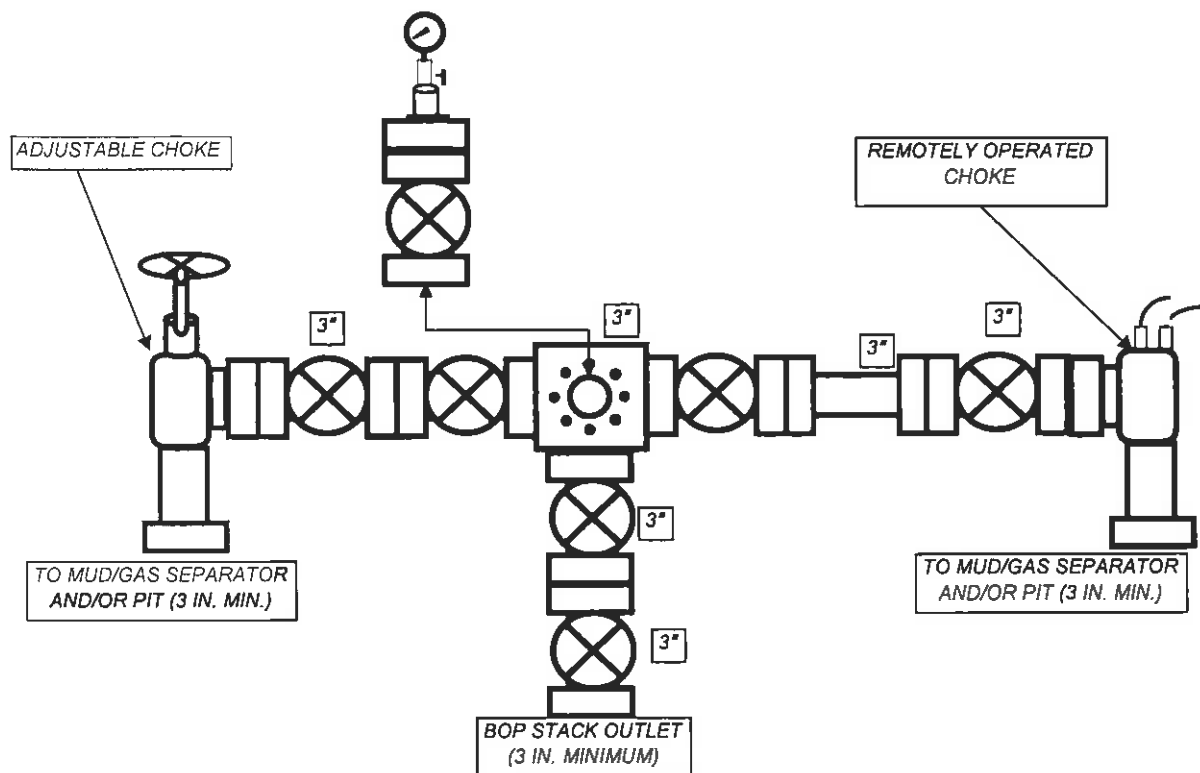
**12. Appendix A**

If we pre-set the 9-5/8" casing on this well with a spudder rig, the following equipment shall be in place and operational during air/gas drilling:

- Blooie line discharge will be a minimum of **45'** from well bore and securely anchored
- Mud circulating equipment and a minimum of 200 bbls of water will be on location (Volume sufficient to maintain the capacity of the hole and circulating tanks or pits).
- No igniter will be on blooie line while drilling the surface hole
- The spudder/air rig air compressor will be located on the rig

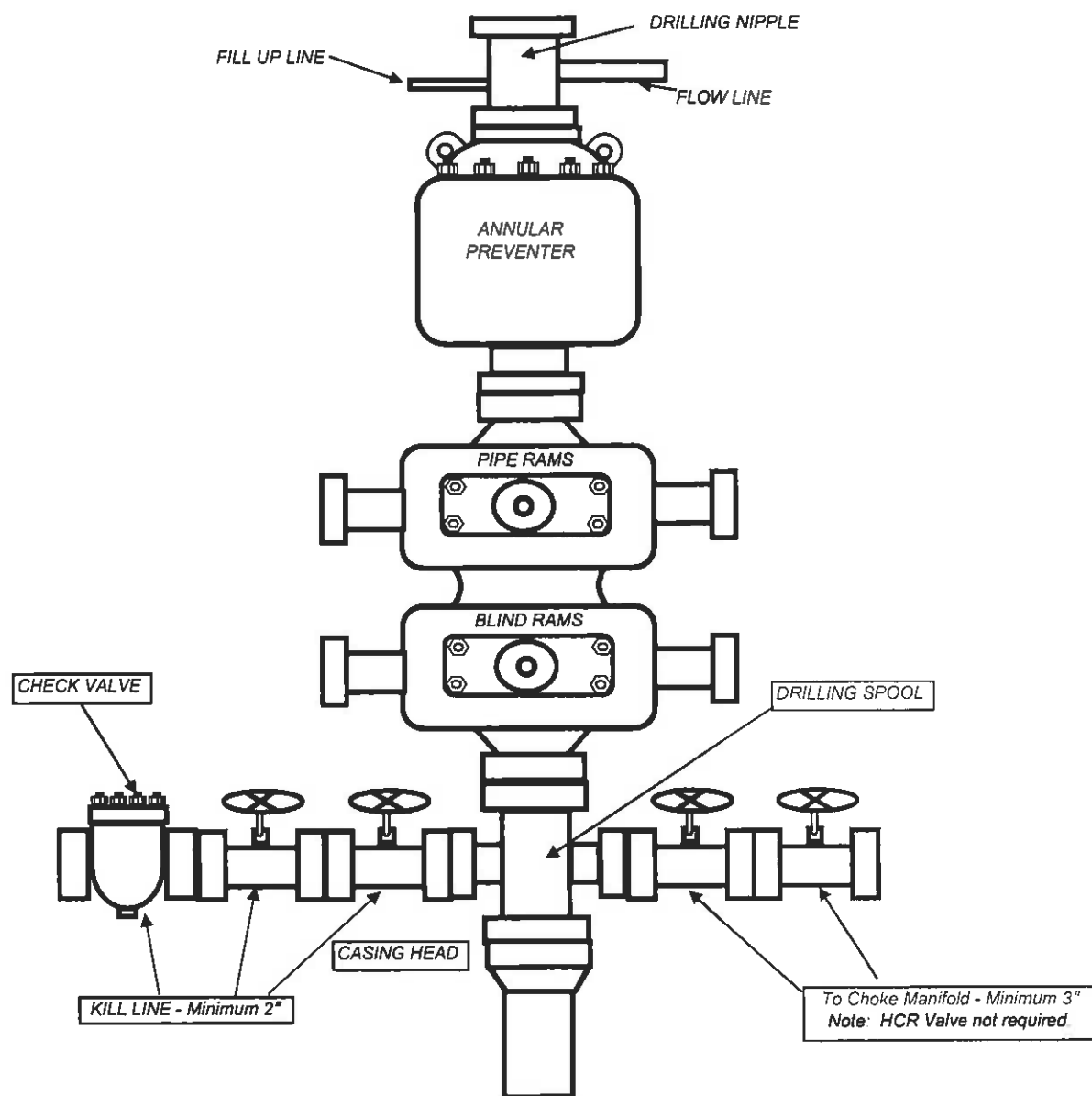
## BILL BARRETT CORPORATION

### TYPICAL 5,000 p.s.i. CHOKE MANIFOLD



## BILL BARRETT CORPORATION

### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



**PRESSURE CONTROL EQUIPMENT – Schematic Attached**

**A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer.** The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 5,000 psi

**C. Testing Procedure:**

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

**E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> FD 10-17-2-2
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<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/27/2014	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL TYPE	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Drilling Contractor: Triple A Drilling LLC. Rig #: TA 4037 Rig Type: Soilmec SR/30 Spud Date: 8/27/2014 Spud Time: 8:00 AM Commence Drilling approximate start date: 9/15/2014		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> August 27, 2014		
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/27/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; padding: 20px;">             No monthly drilling to report, well spud on 8/27/2014           </div> <div style="text-align: right; padding: 20px;"> <b>Accepted by the              Utah Division of              Oil, Gas and Mining              FOR RECORD ONLY              September 03, 2014</b> </div>		
<b>NAME (PLEASE PRINT)</b> Christina Hirtler		<b>PHONE NUMBER</b> 303 312-8597
<b>SIGNATURE</b> N/A		<b>TITLE</b> Administrative Assistant
<b>DATE</b> 9/3/2014		

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<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/3/2014	

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<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> FD 10-17-2-2
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2312 FSL 2935 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 02.0E Meridian: U		<b>9. API NUMBER:</b> 43047542940000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/30/2014	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE   <input type="checkbox"/> CHANGE TO PREVIOUS PLANS   <input type="checkbox"/> CHANGE WELL STATUS   <input type="checkbox"/> DEEPEN   <input type="checkbox"/> OPERATOR CHANGE   <input type="checkbox"/> PRODUCTION START OR RESUME   <input type="checkbox"/> REPERFORATE CURRENT FORMATION   <input type="checkbox"/> TUBING REPAIR   <input type="checkbox"/> WATER SHUTOFF   <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING   <input type="checkbox"/> CHANGE TUBING   <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS   <input type="checkbox"/> FRACTURE TREAT   <input type="checkbox"/> PLUG AND ABANDON   <input type="checkbox"/> RECLAMATION OF WELL SITE   <input type="checkbox"/> SIDETRACK TO REPAIR WELL   <input type="checkbox"/> VENT OR FLARE   <input type="checkbox"/> SI TA STATUS EXTENSION   <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR   <input type="checkbox"/> CHANGE WELL NAME   <input type="checkbox"/> CONVERT WELL TYPE   <input type="checkbox"/> NEW CONSTRUCTION   <input type="checkbox"/> PLUG BACK   <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION   <input type="checkbox"/> TEMPORARY ABANDON   <input type="checkbox"/> WATER DISPOSAL   <input type="checkbox"/> APD EXTENSION           OTHER: <input style="width: 100%;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; padding: 20px;">             No monthly drilling to report, well spud on 8/27/2014    <div style="text-align: right;"> <b>Accepted by the              Utah Division of              Oil, Gas and Mining              FOR RECORD ONLY              October 03, 2014</b> </div> </div>		
<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/2/2014	

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

\_Submitted By ricky kuhr Phone Number 303-353-5374

Well Name/Number FD 10-17-2-2

Qtr/Qtr NW/SE Section 17 Township 2S Range 2E

Lease Serial Number FEE

API Number 4304754294

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☒ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 10/13/2014 1 AM ☒ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time \_\_\_\_\_ AM ☒ PM ☐

Remarks Running 9511' or 17#", p-110, J-55, LTC csg.

—

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

\_Submitted By Pat Clark Phone Number 303-353-5374

Well Name/Number FD 10-17-2-2

Qtr/Qtr NW/SE Section 17 Township 2S Range 2E

Lease Serial Number FEE

API Number 4304754294

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 10/2/2014 900 AM ☒ PM ☐

BOPE

- ☒ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time 10/3/14 600 AM ☒ PM ☐

Remarks Running 2400' of 9 5/8", 36#, J-55, STC csg.

—

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 10-17-2-2	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047542940000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: MOFFAT CANAL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2312 FSL 2935 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 02.0E Meridian: U	COUNTY: UINTAH	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/31/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

October 2014 monthly drilling activity report is attached

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 05, 2014

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A		DATE 11/4/2014

**FD 10-17-2-2 10/1/2014 06:00 - 10/2/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	16.00	22:00	1	RIGUP & TEARDOWN	MOVE RIG AND SET IN PLACE SLOW MOVE DUE TO MUDDY COUNDITONS
22:00	4.00	02:00	1	RIGUP & TEARDOWN	RIG UP CONDUCTOR FLOW LINE PREP TOP DRIVE FOR DRILLING RIG UP FLOOR FILL PITS WITH WATER TRUCKS RIG UP ZECO SOILDS CONTROL AND DE WATERING UNIT RIG ON DAY WORK @ 2200
02:00	1.00	03:00	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS
03:00	1.00	04:00	8	OPEN	WORK ON IRON ROUGH NECK
04:00	1.00	05:00	20	DIRECTIONAL WORK	FINISH PICKING UP DIRECTIONAL TOOLS
05:00	1.00	06:00	21	OPEN	CHANGE OUT AIR BOOTS ON FLOW LINE RIPPED FROM RIGING UP

**FD 10-17-2-2 10/2/2014 06:00 - 10/3/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	7	LUBRICATE RIG	RIG SERVICE
06:30	20.50	03:00	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 94'-1480' (1386') 70' FPH AVG GPM= 639-439 TOPDRIVE RPM=50 MOTOR RPM=108-82 TOTAL RPM=148 WT ON BIT=20K OFF BOTTOM PRESSURE=1169 PSI DIFF BTM 1000-1200 PRESS=150-300PSI TQ=4.5K # 1 PUMP BROKE DOWN
03:00	0.50	03:30	7	LUBRICATE RIG	RIG SERVICE
03:30	2.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 1480'-1695' (215') 87' FPH AVG GPM= 639-439 TOPDRIVE RPM=50 MOTOR RPM=108-82 TOTAL RPM=148 WT ON BIT=20K OFF BOTTOM PRESSURE=1169 PSI DIFF BTM 1000-1200 PRESS=150-300PSI TQ=4.5K # 1 PUMP BROKE DOWN FIXED @ 4 AM

**FD 10-17-2-2 10/3/2014 06:00 - 10/4/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 1695'-2341' (646') 80' FPH AVG GPM= 639- TOPDRIVE RPM=50 MOTOR RPM=108 TOTAL RPM=148 WT ON BIT=20K OFF BOTTOM PRESSURE=1169 PSI DIFF BTM 1800 PRESS=150-300PSI TQ=4.5K
14:00	1.00	15:00	21	OPEN	REMOVE TRIP NIPPLE AND INSTALL ROT HEAD RUBBER
15:00	1.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 2341'-2472' (131') 80' FPH AVG GPM= 639- TOPDRIVE RPM=50 MOTOR RPM=108 TOTAL RPM=148 WT ON BIT=20K OFF BOTTOM PRESSURE=1169 PSI DIFF BTM 1800 PRESS=150-300PSI TQ=4.5K
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE REPLACE ROLLER ON TOP DRIVE SERVICE IRON ROUGH NECK
17:00	0.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 2472'-2508' (36') 80' FPH AVG GPM= 639- TOPDRIVE RPM=50 MOTOR RPM=108 TOTAL RPM=148 WT ON BIT=20K OFF BOTTOM PRESSURE=1169 PSI DIFF BTM 1800 PRESS=150-300PSI TQ=4.5K
17:30	0.50	18:00	5	COND MUD & CIRC	SEND SWEEP AND CIRCULATE AROUND CLEAN UP SHAKERS
18:00	4.50	22:30	6	TRIPS	SHORT TRIP TO 6' COLLARS AND BACK TO BOTTOM
22:30	1.00	23:30	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
23:30	3.00	02:30	6	TRIPS	LAY DOWN DRILL PIPE FOR 9 5/8 CASING RUN
02:30	1.50	04:00	20	DIRECTIONAL WORK	LAY DOWN DIRECTIONAL TOOLS
04:00	1.50	05:30	12	RUN CASING & CEMENT	PREP FLOOR AND TOP DRIVE TO RUN 9 5/8 CASING
05:30	0.50	06:00	12	RUN CASING & CEMENT	RUN NEW 9-5/8" 36#, J-55 STC CASING AS FOLLOWS 1 SHOE 1 CASING JOINT 1 FLOAT COLLAR 61 CASING JOINTS

**FD 10-17-2-2 10/4/2014 06:00 - 10/5/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	12	RUN CASING & CEMENT	FINISH RUNIING CASING

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:00	1.00	14:00	12	RUN CASING & CEMENT	CIRCULATE WHILE RIGGING UP HALLIBURTON CEMENTERS WORK PIPE SHUT DOWN INSTALL CEMENT HEAD
14:00	3.50	17:30	12	RUN CASING & CEMENT	SAFETY MEETING WITH HALLIBURTON CEMENT CREW -TEST LINES @ 5000 PSI, 20 BBLS FRESH WATER 40 BBLS SUPER FLUSH @ 10 PPG 20 BBLS WATER 225 BBLS LEAD CEMENT 400 SKS @ 11 PPG YP 3.16 GALS/SK 19.43 60 BBLS TAIL CEMENT 245 SKS @ 14.8 PPG YP 1.37 GAL/SK 6.62 SHUT DOWN WASH UP LINES DROP PLUG DISPLACE WITH 190.8 BBLS FRESH WATER FINAL LIFT PRESURE 637 PSI BUMP THE PLUG @ 580 PSI FLOATS HELD 80 BBLS OF CEMENT BACK TO SURFACE
17:30	1.00	18:30	12	RUN CASING & CEMENT	RIG DOWN CEMENT HEAD RIG UP 1 INCH 200' PUMP 15 BBLS 15.8 TOP OUT CEMENT
18:30	2.00	20:30	12	RUN CASING & CEMENT	WAIT ON CEMENT TO SET UP RELEASE HALLIBURTON
20:30	2.00	22:30	12	RUN CASING & CEMENT	LIFT CONDUITOR CUT 9 5/8 CASING LAY DOWN WELD ON 11" 5M X 9-5/8" SOW CASINGHEAD
22:30	4.50	03:00	14	NIPPLE UP B.O.P	NIPPLE UP B.O.Ps
03:00	3.00	06:00	15	TEST B.O.P	HOLD S/M RIG UP TEST B.O.Ps WITH B&C QUICK TEST RIG DOWN TESTER TEST B.O.Ps TEST 5000 HIGH F/10 MINS LOWER AND UPPER KELLY VALVE F.O.S.V AND DART VALVE PIPE RAMS INSIDE VALVES HCR, KILL LINE CHOKE LINE, CHECK VALVE INSIDE MANIFOLD VALVES BLIND RAMS SUPER CHOKE TEST 2500 PSI HIGH ANNULAR TEST SURFACE CASING TO 1500 PSI FOR 30 MINS BLM & UDOGM NOTICE WAS SENT OUT 9/29/2014 4:43 PM

**FD 10-17-2-2 10/5/2014 06:00 - 10/6/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54294	Utah	Uintah	Fort Duchesne	COMPLETION	9,511.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	15	TEST B.O.P	FINISH TESTING B.O.Ps
08:00	2.00	10:00	21	OPEN	INSTALL WARE BUSHING AND LOAD RACKS WITH B.H.A & STAP
10:00	1.50	11:30	20	DIRECTIONAL WORK	M/U BIT M/M, PONY SUB, REAMERS, MONELS, SCRIBE DIRECTIONAL TOOL
11:30	3.00	14:30	6	TRIPS	TRIP IN HOLE INSTALL ROT HEAD RUBBER
14:30	1.00	15:30	2	DRILL ACTUAL	DRILL OUT CEMENT FLOAT AND SHOE 20' NEW FORMATION
15:30	0.50	16:00	21	OPEN	CIRCULATE LCM SWEEP PERFORM EMW TEST TO 10.5 250 PSI
16:00	13.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 2538'-4220 (1682') 124' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1427 PSI DIFF PRESS=150-300PSI TQ=4-6K MORNING B.O.P DRILL @ 530 AM 1 MIN
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 10-17-2-2 10/6/2014 06:00 - 10/7/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54294	Utah	Uintah	Fort Duchesne	COMPLETION	9,511.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 4220'-5165' (945') 90' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1670 PSI DIFF PRESS=150-300PSI TQ=4-6K DAY LIGHT B.O.P DRILL 13:00 1 MIN 13 SEC
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	1.50	18:30	21	OPEN	MAKE CONNECTION AND SWIVEL PACKING STARTED LEAKING CHNAGE OUT SWIVEL PACKING
18:30	11.00	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5165'-5610' (445') 41' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1800 PSI DIFF PRESS=150-300PSI TQ=4-6K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 10-17-2-2 10/7/2014 06:00 - 10/8/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54294	Utah	Uintah	Fort Duchesne	COMPLETION	9,511.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5610'- 5982 (372') 33' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1720 PSI DIFF PRESS=150-300PSI TQ=4-6K
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	11.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5982'-6300' (318') 28' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1780 PSI DIFF PRESS=150-300PSI TQ=4-6K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 10-17-2-2 10/8/2014 06:00 - 10/9/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 6300'-6669' (369') 36' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1780 PSI DIFF PRESS=150-300PSI TQ=4-6K
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE
17:30	12.00	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 6669'-7182' (513') 43' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=4-6K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 10-17-2-2 10/9/2014 06:00 - 10/10/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 7182'-7228' (46") 60' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=4-6K
06:30	0.50	07:00	5	COND MUD & CIRC	CIRCULATE SWEEP AROUND FLOW CHECK PUMP DRY JOB
07:00	6.50	13:30	6	TRIPS	TRIP OUT OF THE HOLE FOR BIT
13:30	2.50	16:00	20	DIRECTIONAL WORK	DIRECTIONAL WORK LAY DOWM REAMERS M/U BIT SCRIBE
16:00	5.00	21:00	6	TRIPS	TRIP IN HOLE WASH LAST 100'
21:00	8.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 7228'-7785' (457') 58' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=4-6K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 10-17-2-2 10/10/2014 06:00 - 10/11/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 7785'-8347' (562') 49' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=4-6K
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	11.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 8347'-9014 (667') 60' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=4-6K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 10-17-2-2 10/11/2014 06:00 - 10/12/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 9014'-9465' (451') 40' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=4-6K
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	4.00	22:00	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 9465'-9511' (46') 13' FPH AVG GPM=428 TOPDRIVE RPM=45 MOTOR RPM=68 TOTAL RPM=116 WT ON BIT=23K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=4-7K (BIT STOPPED DRILLING 64' FROM TD COMFIED TD WITH BBC GEOLOGISTS)
22:00	1.50	23:30	5	COND MUD & CIRC	PUMP SWEEP CIRCUALTE OUT
23:30	1.50	01:00	6	TRIPS	SHORT TRIP TO 7200'
01:00	0.50	01:30	7	LUBRICATE RIG	RIG SERVICE
01:30	1.50	03:00	6	TRIPS	TRIP BACK TO BOTTOM
03:00	1.50	04:30	5	COND MUD & CIRC	CIRCULATE BOTTOMS UP
04:30	1.50	06:00	6	TRIPS	TRIP OUT OF HOLE FOR WIRE LINE LOGS

**FD 10-17-2-2 10/12/2014 06:00 - 10/13/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	6	TRIPS	TRIP OUT OF HOLE FOR WIRE LINE LOGS
10:30	0.50	11:00	20	DIRECTIONAL WORK	LAY DOWN DIRECTIOANL TOOLS
11:00	8.00	19:00	11	WIRELINE LOGS	S/M RIG UP WEATHERFORD WIRE LINGE RUN WIRE LINE OPEN HOLE LOGS TAG STICKY HOLE @ 9470'
19:00	1.00	20:00	21	OPEN	PREP FLOOR AND TOP DRIVE FOR 5.5 P-110 17# CASING PULL WARE BUSHING
20:00	7.00	03:00	12	RUN CASING & CEMENT	RUN 5.5 P-110 17# LT&C CASING BREAK CIRC EVERY 2000' TAG @ 9511'
03:00	2.00	05:00	12	RUN CASING & CEMENT	CIRCUALTE 2 FULL CIRCULATIONS WHILE WORKING PIPE UP FAST DOWN SLOW GOOD RETURNS PV/YP 10
05:00	1.00	06:00	12	RUN CASING & CEMENT	CIRCULATE WHILE RIG UP CEMENTERS HOLD SAFETY MEETING WAIT ON BULK TRUCK

**FD 10-17-2-2 10/13/2014 06:00 - 10/14/2014 18:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	13	WAIT ON CEMENT	WAIT ON BULK TRUCK, FINISH RIGGING UP CEMENTERS LAY DOWN TAG JOINT PICK UP LANDING JOINT INSTALL CEMENT HEAD
07:30	4.50	12:00	12	RUN CASING & CEMENT	SAFETY MEETING WITH HALLIBURTON CEMENT CREW -TEST LINES @ 5000 PSI, 40 BBLS 10.7 PPG TUNED SPACER, 20 BBLS WATER SPACER 30 BBLS SUPER FLUSH 20 BBLS WATER 310 BBLS 745 SKS 11.0 PPG 2.34 YILED LEAD CEMENT MIXED @ 10.1 GAL/SK, 205 BBLS 795 SKS 13.5 PPG 1.45 YIELD TAIL CEMENT MIXED @ 6.88 GAL/SK, SHUT DOWN WASH LINES TO PIT DROP PLUG AND DISPLACE WITH 218 BBLS CLAY-WEB WATER/ALDACIDE FINAL LIFT PRESSURE 1650 PSI BUMP @ 2130 PSI FLOATS HELD RIG DOWN CEMENTERS LOST RETURNS INTO DISPLACMENT NO CEMENT BACK TO SURFACE SENT NOTICE TO UDOGM & BLM 10/12/14
12:00	3.00	15:00	14	NIPPLE DOWN B.O.P	SET PACK OFF WITH CAMREON NIPPLE DOWN B.O.PS
15:00	3.00	18:00	21	OPEN	CLEAN PITS (WITH PRICE WATER SUPER SUCKER) RELEASE RIG @ 1800.

**FD 10-17-2-2 10/15/2014 06:00 - 10/16/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 11" NIGHT CAP. CLEAN HANGER MANDREL. NU 7" 5K TBG HEAD. PRES TEST VOID AND SEALS. GOOD. NU 7" NIGHT CAP. WELL SECURE.

**FD 10-17-2-2 10/20/2014 06:00 - 10/21/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	LOGG	Logging	MIRU CUTTERS. RIH W/ GR/JB. TAG AT9365'. DRLG SHOW FC AT 9418' (53' FILL). RIH W/ CBL AND LOG FROM 9365' TO SURFACE. LOG SHOWS GOOD CMT TD-6000' FAIR CMT 6000'-5800' . GOOD CMT 5800'-4950' FAIR CMT 4950'-4890' FAIR CMT 4890'-4590' POOR CMT 4590'-4440' EST TOC AT 4440'. MARKER JTS AT 7995'-8018', AND 8636'-8658'. DID NOT HOLD PRESSURE AS RUN LOG. RDMO CUTTERS. WELL SECURE.
12:00	18.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

**FD 10-17-2-2 10/29/2014 06:00 - 10/30/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES. PRES TEST CSG TO 6200 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 10-17-2-2	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047542940000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: MOFFAT CANAL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2312 FSL 2935 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 02.0E Meridian: U	COUNTY: UINTAH	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="SSD"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/5/2014			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

ATTACHED PLEASE FIND THE SITE FACILITY DIAGRAM/SITE SECURITY.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 November 10, 2014

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 11/5/2014

Sundry Number: 57481 API Well Number: 43047542940000

BILL BARRETT CORPORATION

FD FEE 10-17-2-2

NW¼ SE¼ SEC 17,T2S, R2E,

Lease # FEE

API # 43-047-54294

Uintah Co. Utah

Site Security Plan Located at  
Bill Barrett Corporation  
Roosevelt Office  
ROUTE 3 BOX 3110  
1820 W HIGHWAY 40  
ROOSEVELT, UT 84066

1 - 4" LOAD LINE

Production Phase – sealed closed

Sales Phase- open to load Production bought

2 – 3" OIL LINES

Production Phase – open

Sales Phase – sealed close

3 – 4" DRAIN

Production Phase – sealed closed

Sales Phase – sealed closed

Drain water – open

4 – 4" UPPER EQUALIZER

Production Phase – open

Sales Phase – sealed close

5 – BYPASS

6 – 3" WATER LINES

Production Phase – open

No Sales Phase

7- 2" RECYCLE

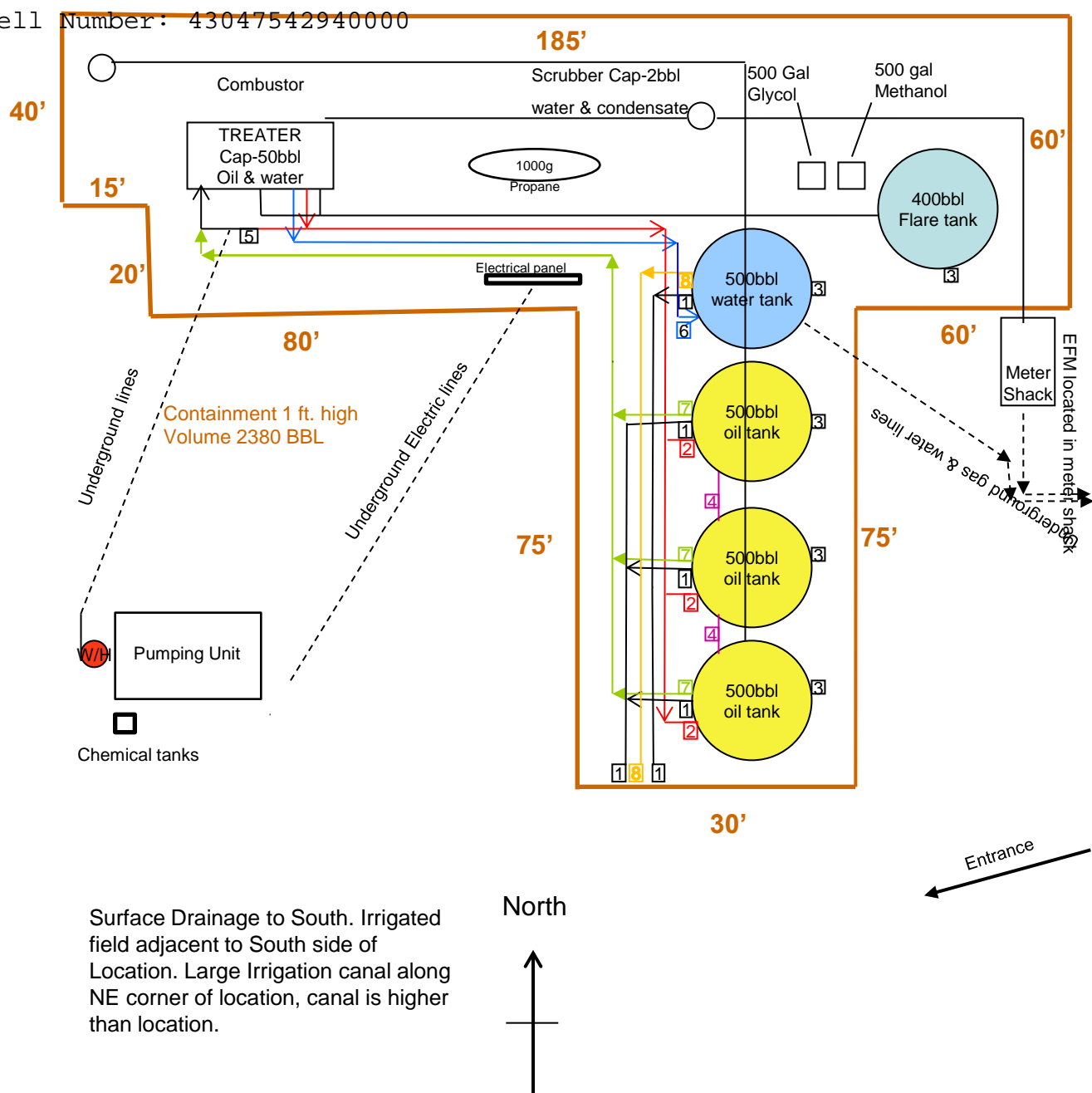
Production – open

Sales – sealed closed

8- 2" WATER TANK SKIM

Not sealed

- PRV, RUPTURE DISC & FLARE LINES- tie in to flare tank  
for emergency pressure relief of treater



Surface Drainage to South. Irrigated field adjacent to South side of Location. Large Irrigation canal along NE corner of location, canal is higher than location.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 10-17-2-2	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047542940000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: MOFFAT CANAL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2312 FSL 2935 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 02.0E Meridian: U	COUNTY: UINTAH	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input checked="" type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION	OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/5/2014				
<input type="checkbox"/> SPUD REPORT Date of Spud:				
<input type="checkbox"/> DRILLING REPORT Report Date:				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THIS WELL HAD FIRST PRODUCTION ON 11/5/2014 AND FIRST GAS  
SALES ON 11/6/2014.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**  
November 13, 2014

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 11/10/2014

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> FD 10-17-2-2
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2312 FSL 2935 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 17 Township: 02.0S Range: 02.0E Meridian: U		<b>9. API NUMBER:</b> 43047542940000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/30/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 Attached is the November 2014 Drilling Activity for this well.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 December 03, 2014

<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/3/2014	

**FD 10-17-2-2 11/1/2014 06:00 - 11/2/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HEAT 48) 500 BBL TANKS TO 100*.

**FD 10-17-2-2 11/2/2014 06:00 - 11/3/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.50	08:30	SRIG	Rig Up/Down	MIRU CUTTERS W/ 5" 10K LUBE.
08:30	1.00	09:30	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 60 PSI. RIH AND CORRELATE TO SJ AT 7995'-8018' AND 8636'-8658'. RUN DOWN AND PERF UTELAND BUTTE FORM 8964'-9313' WITH 54 HOLES IN 18' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.
09:30	4.00	13:30	SRIG	Rig Up/Down	MIRU HES FRAC FLEET.
13:30	16.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

**FD 10-17-2-2 11/3/2014 06:00 - 11/4/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	SMTG	Safety Meeting	AOL 04:30. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA, OVER HEAD LOADS, PICKING UP LAYING DOWN GUNS.
06:30	2.00	08:30	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 9230 PSI. OPEN WELL W/ 903 PSI AT 6:33 AM BREAK DOWN 3743 PSI AT 9.7 BPM. PMP 3900 GAL 15% HCL ACID W/ 108 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2911 PSI. FLUSH W/ 8752 GAL. 29.4 BPM AT 3504 PSI. BALL OUT (MAX PRESSURE 5944 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 5 MIN.  STAGE FR PAD. STABLE RATE OF 70.6 BPM AT 4792 PSI. ISDP 3030. FG .77. PERFS OPEN 31/54  ISIP 3298, FG .79, MR 74.3 BPM, AR 70.7 BPM, MP 5866 PSI (ON FINAL FLUSH), AP 4462 PSI 100 MESH 8,000 LBS 0.75PPG 30/50 WHITE 150,200 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) & 1.5-3.0 (20# HYBOR) SLK WTR 133,056 GAL, 20# GEL 42,438 GAL, 20# HYBOR 34,163 BBL.BTR 5314 BBLS.  STAGE SCORE 10  SHUT IN AND TURN OVER TO CUTTERS
08:30	1.25	09:45	PFRT	Perforating	PERF STG #2- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE (WITH METHANOL) 3050 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8636'-8658'. RUN DOWN AND SET 5-1/2" CBP AT 8932' WITH 2950 PSI. PULL UP AND PERF 3PT/BSF/CSTL PK FORM 8589'-8912' WITH 45 HOLES IN 15' NET. END PERFS WITH 2100 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN.  TURN WELL OVER TO HES.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
09:45	1.75	11:30	FRAC	Frac. Job	<p>FRAC STG 2 PRESSURE TEST LINES TO 9310 PSI. OPEN WELL W/ 1812 PSI AT 09:47 AM BREAK DOWN 5033 PSI AT 9.6 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.1 BPM AT 3138 PSI. FLUSH W/ 8386 GAL. 30.2 BPM AT 3846 PSI. BALL OUT (MAX PRESSURE 6214 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 5 MIN.</p> <p>STAGE FR PAD. STABLE RATE OF 70.2 BPM AT 5229 PSI. ISDP 3084. FG .79. PERFS OPEN 26/45</p> <p>ISIP 3359, FG .82, MR 72.7 BPM, AR 70.4 BPM, MP 6084 PSI (ON FINAL FLUSH), AP 4765 PSI 100 MESH 8,000 LBS 0.75PPG 30/50 WHITE 150,000 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) &amp; 1.5-3.0 (20# HYBOR) SLK WTR 137,832 GAL, 20# GEL 37,395 GAL, 20# HYBOR 33,924 BBL.BTR 5284 BBLs.</p> <p>STAGE SCORE 10</p> <p>SHUT IN AND TURN OVER TO CUTTERS</p>
11:30	1.25	12:45	PFRT	Perforating	<p>PERF STG #3- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE (WITH METHANOL) 3050 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7995'-8018'. RUN DOWN AND SET 5-1/2" CBP AT 8538' WITH 2950 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 8190'-8518' WITH 45 HOLES IN 15' NET. END PERFS WITH 2950 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN.</p> <p>TURN WELL OVER TO HES.</p>
12:45	2.50	15:15	FRAC	Frac. Job	<p>FRAC STG 3 PRESSURE TEST LINES TO 9310 PSI. (LEAK IN TOP VALVE BONNET, TIGHTEN AND FIX LEAK) OPEN WELL W/ 2930 PSI AT 13:30 AM BREAK DOWN 3635 PSI AT 9.9 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 3090 PSI. FLUSH W/ 7997 GAL. 29.4 BPM AT 3688 PSI. BALL OUT (MAX PRESSURE 8186 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 5 MIN.</p> <p>STAGE FR PAD. STABLE RATE OF 70.7 BPM AT 4742 PSI. ISDP 3292. FG .84. PERFS OPEN 36/45</p> <p>ISIP 3361, FG .84, MR 73.7 BPM, AR 70.3 BPM, MP 5015 PSI (ON FINAL FLUSH), AP 4465 PSI 100 MESH 8,000 LBS 0.75PPG 30/50 WHITE 150,000 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) &amp; 1.5-3.0 (20# HYBOR) SLK WTR 138,386 GAL, 20# GEL 35,666 GAL, 20# HYBOR 36,546 BBL.BTR 5305 BBLs.</p> <p>STAGE SCORE 10 (LOST SUCTION AT START OF XL STAGE, ABLE TO GET BACK AND INTO RAMP QUICKLY) SHUT IN AND TURN OVER TO CUTTERS</p>
15:15	1.25	16:30	PFRT	Perforating	<p>PERF STG #4- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE (WITH METHANOL) 3200 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7995'-8018'. RUN DOWN AND SET 5-1/2" CBP AT 8174' WITH 3100 PSI. PULL UP AND PERF TGR3 FORM 8040'-8154' WITH 75 HOLES IN 25' NET. END PERFS WITH 2200 PSI. POOH AND VERIFY ALL GUNS SHOT.</p> <p>SHUT IN AND SECURE WELL. WINTERIZE WELLHEAD.</p>
16:30	13.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

**FD 10-17-2-2 11/4/2014 06:00 - 11/5/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	SMTG	Safety Meeting	AOL 05:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA, OVER HEAD LOADS, PICKING UP LAYING DOWN GUNS.
06:30	2.00	08:30	FRAC	Frac. Job	<p>FRAC STG 4  PRESSURE TEST LINES TO 9225 PSI.  OPEN WELL W/ 2560 PSI AT 6:25 AM  BREAK DOWN 3419 PSI AT 10.3 BPM.  PMP 3900 GAL 15% HCL ACID W/ 150 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2210 PSI.  FLUSH W/ 7850 GAL. 29.5 BPM AT 3075 PSI. BALL OUT (MAX PRESSURE 7554 PSI), SHUT DOWN PMP. SURGE 3X. SHUT DOWN FOR 5 MIN.</p> <p>STAGE FR PAD. STABLE RATE OF 70.6 BPM AT 4774 PSI. ISDP 2773 . FG .78. PERFS OPEN /75</p> <p>ISIP 2935, FG .80, MR 70.9 BPM, AR 70.6 BPM, MP 5040 PSI (ON FINAL FLUSH), AP 3987 PSI  100 MESH 8,460 LBS 0.75PPG  30/50 WHITE 149,620 lbs 0.5-0.8 (SLK), 0.8-1.5 (20# GEL) &amp; 1.5-3.0 (20# HYBOR)  SLK WTR 3280 BBLS, 20# GEL 873 BBLS, 20# HYBOR 799 BBL.BTR 5318 BBLS.</p> <p>STAGE SCORE 10</p> <p>HES RIG DOWN CANDY CANES  SHUT IN AND TURN OVER TO CUTTERS</p>
08:30	1.25	09:45	WLWK	Wireline	KILL PLUG- PU 5-1/2" HES PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 2700 PSI. RIH & SET KILL PLUG AT 7940' WITH 2650 PSI. BLEED OFF AS POOH.
09:45	2.00	11:45	SRIG	Rig Up/Down	RDMO HES AND CUTTERS FRAC FLEET.
11:45	18.25	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE. STACK FRAC WTR. MOVE OFF FRAC LINE.

**FD 10-17-2-2 11/5/2014 06:00 - 11/6/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.00	08:00	SRIG	Rig Up/Down	ROAD RIG TO LOCATION. RUSU.
08:00	1.00	09:00	BOPI	Install BOP's	CHECK PRESSURE. ND FRAC VALVES. NU 7" 5K BOP AND HYDRIL. RU FLOOR.
09:00	2.50	11:30	GOP	General Operations	SPOT CATWALK AND PIPE RACKS. UNLOAD 304-JTS 2-7/8" L-80 TBG.
11:30	3.00	14:30	RUTB	Run Tubing	MU 4-3/4" BIT, FLOAT SUB, 1-JT TBG, DRAIN SUB. RIH AS MEAS AND PU TBG.
14:30	0.50	15:00	PTST	Pressure Test	RU PWR SWIVEL. FILL TBG. PRES TEST BOP AND LINES TO 2400 PSI.
15:00	2.50	17:30	DOPG	Drill Out Plugs	<p>EST CIRC. PUMP 2 BPM, HOLD 1500 PSI BACK PRES ON 18/64" AS D/O KILL PLUG, PRES CAME UP TO 2100 PSI WHEN THRU.</p> <p>CBP #1 AT 7940'. 0' FILL. D/O IN 5 MIN. FCP 2100 PSI ON 18/64".  CBP #2 AT 8174'. 12' FILL. D/O IN 5 MIN. FCP 2000 PSI ON 18/64".  CBP #3 AT 8538'. 15' FILL. D/O IN 5 MIN. FCP 1900 PSI ON 18/64".  CBP #4 AT 8932'. 52' FILL. D/O IN 10 MIN. FCP 1950 PSI ON 18/64".</p> <p>HANG PWR SWIVEL. EOT AT 8995' W/ 282-JTS IN. CIRC CLEAN. TURN TO PRODUCTION AND TREATER FOR NIGHT.</p>
17:30	12.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO PRODUCTION. FCP 1950 PSI ON 18/64" CHOKE.

**FD 10-17-2-2 11/6/2014 06:00 - 11/7/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM. WELL FLOWING TO TREATER 1650 FCP ON 20/64". TRACE OF OIL. OPEN TO FBT.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:00	1.50	08:30	DOPG	Drill Out Plugs	RIH. EST CIRC.  FC AT 9417'. C/O 128' FILL TO F.C. D/O 56' CMT TO PBTD AT 9473'. CIRC CLEAN W/ 30 BBLs. RD PWR SWIVEL.
08:30	1.00	09:30	PULT	Pull Tubing	POOH AS LD 49-JTS TBG. TOTAL TBG OUT ON RACK IS 56JTS.
09:30	1.00	10:30	BOPR	Remove BOP's	LUBE IN AND LAND HANGER. RD FLOOR. ND BOP. NU WH.  TBG DETAIL KB 13.00 HANGER .85 247-JTS 2-7/8" L-80 7871.41 XNN-.89 1-JT 2-7/8" L-80 31.85 POBS .95  EOT AT 7918.95'
10:30	0.50	11:00	GOP	General Operations	POBS @ 3800 PSI. TURN OVER TO FB CREW AND PRODUCTION. SICP 1700, FTP 1700 ON 16/64" CHOKE.
11:00	1.00	12:00	SRIG	Rig Up/Down	RDSU.
12:00	1.50	13:30	RMOV	Rig Move	ROAD RIG TO 12-21-2-2 FD. PARK ON LOC, WILL BRING OUT NEW STONE RIG 5 AND MIRU TOMORROW MORNING.
13:30	16.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL TURNED OVER TO FBC AND PRODUCTION.

**FD 10-17-2-2 11/24/2014 06:00 - 11/25/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	travel to rig
07:00	0.30	07:18	RMOV	Rig Move	MOB rig to location
07:18	1.30	08:36	HOIL	Hot Oil Well	flush cag with 200 BW, clean up location
08:36	1.30	09:54	BOPI	Install BOP's	ND WH/NU bops, rig floor & tools
09:54	2.30	12:12	PULT	Pull Tubing	pickup 7 jts, POOH with 254 jts, XN, 1 jt, POBS
12:12	1.30	13:30	RUTB	Run Tubing	RIH with Production tbg as follows: BP .75' @ 8166.12 5 jts 2 7/8" 159.34 DS 17.12' 2 7/8" tbg sub 4.22' SN 1.10 @ 7984.69 3 jts 2 7/8" 95.60' 5.5" TAC 8rd 2.75' @ 7887.99' 247 jts 2 7/8" tbg 7871.39' Hanger .85' KB 13.00 Set TAC w/ 20K tension, ND Bop's, NU WH
13:30	0.30	13:48	GOP	General Operations	x over to rod equipment, prep rods, SDFN
13:48	1.00	14:48	CTRL	Crew Travel	travel to yard

**FD 10-17-2-2 11/25/2014 06:00 - 11/26/2014 06:00**

API 43-047-54294	State/Province Utah	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,511.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	travel to location
07:00	0.30	07:18	HOIL	Hot Oil Well	Flush tbg w/ 40 BW
07:18	4.30	11:36	RURP	Run Rods & Pump	Pickup & run new pump & rods as follows: 2.5" x 1.75" x 20.5 x24' RHBC shear coupling 32 1" D 4 pers 86 3/4" D 4pers 101 7/8" D 4 pers 98 1" D 4 pers No subs 1.5" x 30' PR Load & test, Clean up, RDMO, RTP
11:36	1.30	12:54	SRIG	Rig Up/Down	RDMO

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8  
(highlight changes)5. LEASE DESIGNATION AND SERIAL NUMBER:  
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
FD 10-17-2-29. API NUMBER:  
430475429410 FIELD AND POOL, OR WILDCAT  
Moffat Canal11. QTR/QTR, SECTION, TOWNSHIP, RANGE,  
MERIDIAN:  
NWSE 17 2D 2E U12. COUNTY  
Utah13. STATE  
UTAH1a. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHERb. TYPE OF WORK: NEW WELL ☒ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER2. NAME OF OPERATOR:  
Bill Barrett Corporation3. ADDRESS OF OPERATOR:  
1099 18th St Ste 2300 CITY Denver STATE CO ZIP 80202PHONE NUMBER:  
(303) 293-9100

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: 2312 FSL 2935 FWL

AT TOP PRODUCING INTERVAL REPORTED BELOW: 2285 FSL 2973 FWL

AT TOTAL DEPTH: 2283 FSL 3000 FWL

14. DATE SPUDDED:  
8/27/201415. DATE T.D. REACHED:  
10/11/201416. DATE COMPLETED:  
11/5/2014ABANDONED ☐READY TO PRODUCE ☒17. ELEVATIONS (DF, RKB, RT, GL):  
5110 GL18. TOTAL DEPTH: MD 9,511  
TVD 9,51019. PLUG BACK T.D.: MD 9,419  
TVD 9,418

20. IF MULTIPLE COMPLETIONS, HOW MANY? \*

21. DEPTH BRIDGE MD  
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

Triple combo/MUD

23.

WAS WELL CORED?

NO ☒YES ☐

(Submit analysis)

WAS DST RUN?

NO ☒YES ☐

(Submit report)

DIRECTIONAL SURVEY?

NO ☐YES ☒

(Submit copy)

## 24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 Cor	65#	0	80	80			0	
12 1/4	9 5/8 J-55	36#	0	2,508	2,508	Lead 400	225	0	
						Tail 325	70		
8 3/4	5 1/2 P110	17#	0	9,511	9,508	Tuned 745	338	4550	
						ECON 795	272		

## 25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	8,166							

## 26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	8,040	9,313		
(B)				
(C)				
(D)				

## 27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
8,040 9,313 .38	159	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
		Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
		Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
		Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

## 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
8,040-9,313	Green River: See attached Stage 1-4

## 29. ENCLOSED ATTACHMENTS:

☒ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☒ DIRECTIONAL SURVEY  
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER: \_\_\_\_\_

## 30. WELL STATUS:

POW

**31. INITIAL PRODUCTION****INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED: 11/5/2014		TEST DATE: 11/12/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 203	GAS – MCF: 38	WATER – BBL: 87	PROD. METHOD: Flowing
CHOKE SIZE: 24/64	TBG. PRESS. 100	CSG. PRESS. 475	API GRAVITY 32.00	BTU – GAS 1	GAS/OIL RATIO 187	24 HR PRODUCTION RATES: →	OIL – BBL: 203	GAS – MCF: 38	WATER – BBL: 87	INTERVAL STATUS:

**INTERVAL B (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL C (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**INTERVAL D (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)****Sold****33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Green River	5,577
				Mahogany	6,814
				TGR3	8,037
				Douglas Creek	8,184
				Black Shale Facies	8,667
				Castle Peak	8,763
				Uteland Butte	9,040
				Wasatch	9,517
				TD	9,511

**35. ADDITIONAL REMARKS (Include plugging procedure)**

TOC calculated by CBL. Conductor cemented with grout. First gas sales 11/6/2014; first oil sales 11/11/2014

**36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.**NAME (PLEASE PRINT) Christina HirtlerTITLE Permit Analyst

SIGNATURE \_\_\_\_\_

DATE 12/4/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

**FD 10-17-2-2 Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<u><i>Stage</i></u>	<u><i>bbls Slurry</i></u>	<u><i>lbs Common White 100 Mesh Sand</i></u>	<u><i>lbs 30/50 Premium White</i></u>	<u><i>gal 15% HCl Acid</i></u>
1	5314	8,000	150,200	4,400
2	5284	8,000	150,000	3,900
3	5305	8,000	150,000	3,900
4	5318	8,460	149,620	3,400

\*Depth intervals for frac information same as perforation record intervals.



# Payzone Directional

## End of Well Report



Sundry Number: 58554 API Well Number: 43047542940000

<b>Company:</b> Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b> Well FD 10-17-2-2	
<b>Project:</b> Fort Duchesne	FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)	
<b>Site:</b> SECTION 17 T2S, R2E	FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)	
<b>Well:</b> FD 10-17-2-2	True	
<b>Wellbore:</b> Wellbore #1	Minimum Curvature	
<b>Design:</b> Actual	EDM 5000.1 Single User Db	

<b>Project</b> Fort Duchesne	<b>System Datum:</b> Mean Sea Level
<b>Map System:</b> US State Plane 1983	
<b>Geo Datum:</b> North American Datum 1983	
<b>Map Zone:</b> Utah Southern Zone	

<b>Site</b> SECTION 17 T2S, R2E	<b>Northings:</b> 11,174,760.11 usft	<b>Latitude:</b> 40° 18' 44.110 N
<b>Site Position:</b> From: Lat/Long	<b>Easting:</b> 2,114,575.32 usft	<b>Longitude:</b> 109° 48' 4.620 W
<b>Position Uncertainty:</b> 0.0 usft	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> 1.04 °

<b>Well</b> FD 10-17-2-2, SHL: 40° 18' 30.140 -109° 47' 33.140	<b>Northings:</b> 11,173,389.77 usft	<b>Latitude:</b> 40° 18' 30.140 N
<b>Well Position</b> +N/-S 0.0 usft	<b>Easting:</b> 2,117,041.70 usft	<b>Longitude:</b> 109° 47' 33.140 W
<b>Position Uncertainty</b> +E/-W 0.0 usft	<b>Wellhead Elevation:</b> 5,122.0 usft	<b>Ground Level:</b> 5,109.0 usft

<b>Wellbore</b> Wellbore #1				
<b>Magnetics</b> Model Name IGRF2010	<b>Sample Date</b> 9/22/2014	<b>Declination</b> (°) 10.82	<b>Dip Angle</b> (°) 65.98	<b>Field Strength</b> (nT) 52,130

<b>Design</b> Actual			
<b>Audit Notes:</b> Version: 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b> 0.0	
<b>Vertical Section:</b> Depth From (TVD) (usft) 0.0	<b>+N/-S</b> (usft) 0.0	<b>+E/-W</b> (usft) 0.0	<b>Direction</b> (°) 114.17

<b>Survey Program</b> From (usft) 110.0	<b>To</b> (usft) 9,511.0	<b>Survey (Wellbore)</b> Survey #1 (Wellbore #1)	<b>Tool Name</b> MWD	<b>Description</b> MWD v3-standard declination
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# Payzone Directional

End of Well Report



Sundry Number: 58554 API Well Number: 43047542940000

Company: Project: Site: Well: Wellbore: Design:		Bill Barrett Corporation Fort Duchesne SECTION 17 T2S, R2E FD 10-17-2-2 Wellbore #1 Actual		Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Database:						Well FD 10-17-2-2 FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330) FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330) True Minimum Curvature EDM 5000.1 Single User Db	
Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)		
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00		
110.0	0.07	100.61	110.0	0.1	0.0	0.1	0.06	0.06	0.00		
202.0	0.04	245.18	202.0	0.1	0.0	0.1	0.11	-0.03	157.14		
294.0	0.01	293.82	294.0	0.1	0.0	0.1	0.04	-0.03	52.87		
385.0	0.31	257.00	385.0	-0.1	-0.1	-0.2	0.33	0.33	-40.46		
477.0	0.44	204.66	477.0	-0.3	-0.5	-0.6	0.38	0.14	-56.89		
567.0	0.40	213.89	567.0	-0.4	-1.1	-0.9	0.09	-0.04	10.26		
658.0	0.53	228.83	658.0	-0.6	-1.6	-1.4	0.19	0.14	16.42		
749.0	0.18	216.04	749.0	-0.8	-2.0	-1.8	0.39	-0.38	-14.05		
843.0	0.09	351.84	843.0	-0.9	-2.0	-1.9	0.27	-0.10	144.47		
928.0	0.13	234.68	928.0	-1.0	-2.0	-2.0	0.22	0.05	-137.84		
1,015.0	0.13	175.35	1,015.0	-1.0	-2.2	-2.1	0.15	0.00	-68.20		
1,100.0	0.18	223.08	1,100.0	-1.0	-2.4	-2.1	0.16	0.06	56.15		
1,188.0	0.18	171.40	1,188.0	-0.9	-2.6	-2.2	0.18	0.00	-58.73		
1,274.0	0.22	204.44	1,274.0	-0.9	-2.9	-2.3	0.14	0.05	38.42		
1,362.0	0.09	163.35	1,362.0	-0.8	-3.1	-2.3	0.19	-0.15	-46.69		
1,450.0	0.40	175.04	1,450.0	-0.6	-3.5	-2.3	0.35	0.35	13.28		
1,536.0	0.22	174.74	1,536.0	-0.4	-3.9	-2.2	0.21	-0.21	-0.35		
1,622.0	0.35	220.44	1,622.0	-0.4	-4.3	-2.4	0.29	0.15	53.14		
1,710.0	0.09	177.55	1,710.0	-0.4	-4.6	-2.5	0.33	-0.30	-48.74		
1,795.0	0.48	163.93	1,795.0	-0.2	-5.0	-2.4	0.46	0.46	-16.02		
1,880.0	0.35	168.85	1,880.0	0.2	-5.6	-2.3	0.16	-0.15	5.79		
1,966.0	0.26	177.59	1,966.0	0.4	-6.0	-2.2	0.12	-0.10	10.16		
2,054.0	0.35	148.76	2,054.0	0.7	-6.5	-2.1	0.20	0.10	-32.76		
2,140.0	0.22	220.48	2,140.0	0.9	-6.8	-2.1	0.41	-0.15	83.40		
2,225.0	0.29	212.91	2,225.0	0.8	-7.1	-2.3	0.09	0.08	-8.91		
2,311.0	0.40	159.00	2,311.0	1.0	-7.6	-2.3	0.38	0.13	-62.69		



# Payzone Directional

## End of Well Report



Sundry Number: 58554 API Well Number: 43047542940000

<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 10-17-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)
<b>Site:</b>	SECTION 17 T2S, R2E	<b>MD Reference:</b>	FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)
<b>Well:</b>	FD 10-17-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	2,399.0	0.31	152.41	2,399.0	1.4	-8.1	-2.1	0.11	-0.10	-7.49
	2,435.0	0.22	178.08	2,435.0	1.5	-8.2	-2.0	0.41	-0.25	71.31
	2,559.0	0.22	150.13	2,559.0	1.8	-8.7	-1.9	0.09	0.00	-22.54
	2,646.0	0.09	353.23	2,646.0	1.9	-8.8	-1.8	0.35	-0.15	-180.34
	2,731.0	0.22	132.41	2,731.0	2.0	-8.8	-1.7	0.35	0.15	163.74
	2,816.0	0.09	347.55	2,816.0	2.2	-8.9	-1.6	0.35	-0.15	-170.42
	2,902.0	0.09	257.52	2,902.0	2.1	-8.8	-1.7	0.15	0.00	-104.69
	2,988.0	0.22	235.04	2,988.0	1.9	-8.9	-1.9	0.16	0.15	-26.14
	3,073.0	0.31	176.13	3,073.0	1.9	-9.2	-2.0	0.32	0.11	-69.31
	3,158.0	0.40	204.33	3,158.0	2.1	-9.7	-2.1	0.23	0.11	33.18
	3,246.0	0.62	268.32	3,246.0	1.6	-10.0	-2.7	0.65	0.25	72.72
	3,332.0	0.71	315.42	3,332.0	0.7	-9.7	-3.6	0.63	0.10	54.77
	3,420.0	1.02	286.12	3,420.0	-0.6	-9.1	-4.7	0.60	0.35	-33.30
	3,509.0	0.71	295.73	3,508.9	-1.9	-8.6	-5.9	0.38	-0.35	10.80
	3,596.0	0.49	294.05	3,595.9	-2.8	-8.2	-6.8	0.25	-0.25	-1.93
	3,682.0	0.71	277.13	3,681.9	-3.7	-8.0	-7.6	0.33	0.26	-19.67
	3,769.0	0.40	206.62	3,768.9	-4.2	-8.2	-8.3	0.79	-0.36	-81.05
	3,857.0	0.62	215.35	3,856.9	-4.3	-8.9	-8.7	0.26	0.25	9.92
	3,945.0	0.09	167.62	3,944.9	-4.4	-9.3	-9.0	0.64	-0.60	-54.24
	4,031.0	0.31	153.34	4,030.9	-4.2	-9.6	-8.9	0.26	0.26	-16.60
	4,118.0	0.80	3.63	4,117.9	-4.2	-9.2	-8.7	1.24	0.56	-172.08
	4,204.0	1.02	4.74	4,203.9	-4.7	-7.8	-8.6	0.26	0.26	1.29
	4,377.0	0.31	42.43	4,376.9	-5.0	-6.0	-8.2	0.46	-0.41	21.79
	4,463.0	0.31	40.84	4,462.9	-4.9	-5.6	-7.9	0.01	0.00	-1.85
	4,549.0	0.49	52.21	4,548.9	-4.6	-5.2	-7.4	0.23	0.21	13.22
	4,634.0	0.31	49.12	4,633.9	-4.4	-4.8	-7.0	0.21	-0.21	-3.64
	4,719.0	0.22	127.34	4,718.9	-4.1	-4.8	-6.7	0.40	-0.11	92.02

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# Payzone Directional

## End of Well Report



Sundry Number: 58554 API Well Number: 43047542940000

Company: Bill Barrett Corporation			Local Co-ordinate Reference: Well FD 10-17-2-2						
Project: Fort Duchesne			TVD Reference: FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)						
Site: SECTION 17 T2S, R2E			MD Reference: FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)						
Well: FD 10-17-2-2			North Reference: True						
Wellbore: Wellbore #1			Survey Calculation Method: Minimum Curvature						
Design: Actual			Database: EDM 5000.1 Single User Db						
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
4,805.0	0.31	172.43	4,804.9	-3.8	-5.1	-6.5	0.26	0.10	52.43
4,890.0	0.49	205.12	4,889.9	-3.7	-5.7	-6.6	0.33	0.21	38.46
4,977.0	0.31	163.04	4,976.9	-3.6	-6.2	-6.7	0.38	-0.21	-48.37
5,062.0	0.62	135.23	5,061.9	-3.0	-6.8	-6.3	0.44	0.36	-32.72
5,148.0	0.40	128.45	5,147.9	-2.3	-7.3	-5.8	0.26	-0.26	-7.88
5,237.0	0.49	142.55	5,236.9	-1.6	-7.8	-5.3	0.16	0.10	15.84
5,322.0	0.88	139.95	5,321.9	-0.7	-8.6	-4.6	0.46	0.46	-3.06
5,407.0	1.02	130.91	5,406.9	0.6	-9.6	-3.6	0.24	0.16	-10.64
5,493.0	0.71	99.54	5,492.8	1.8	-10.2	-2.5	0.65	-0.36	-36.48
5,579.0	0.80	120.43	5,578.8	3.0	-10.6	-1.5	0.33	0.10	24.29
5,667.0	1.19	108.04	5,666.8	4.5	-11.1	-0.1	0.50	0.44	-14.08
5,752.0	1.41	95.53	5,751.8	6.3	-11.5	1.8	0.42	0.26	-14.72
5,837.0	1.28	97.51	5,836.8	8.2	-11.7	3.8	0.16	-0.15	2.33
5,922.0	1.28	101.21	5,921.8	10.1	-12.1	5.6	0.10	0.00	4.35
6,007.0	0.80	123.42	6,006.7	11.6	-12.6	7.1	0.73	-0.56	26.13
6,093.0	1.19	125.45	6,092.7	13.1	-13.4	8.3	0.46	0.45	2.36
6,178.0	1.59	156.12	6,177.7	14.8	-15.0	9.5	0.98	0.47	36.08
6,263.0	1.28	153.92	6,262.7	16.4	-16.9	10.4	0.37	-0.36	-2.59
6,351.0	1.10	152.82	6,350.7	17.8	-18.6	11.2	0.21	-0.20	-1.25
6,437.0	1.10	189.92	6,436.7	18.7	-20.1	11.4	0.81	0.00	43.14
6,522.0	1.68	136.64	6,521.6	20.0	-21.8	12.1	1.59	0.68	-62.68
6,609.0	1.81	110.50	6,608.6	22.6	-23.2	14.3	0.92	0.15	-30.05
6,694.0	1.99	141.53	6,693.5	25.2	-24.9	16.5	1.21	0.21	36.51
6,779.0	1.90	92.93	6,778.5	27.8	-26.1	18.8	1.89	-0.11	-57.18
6,866.0	1.81	83.14	6,865.5	30.4	-26.0	21.6	0.38	-0.10	-11.25
6,951.0	1.68	82.62	6,950.4	32.6	-25.7	24.2	0.15	-0.15	-0.61
7,037.0	1.50	87.82	7,036.4	34.7	-25.5	26.6	0.27	-0.21	6.05



# Payzone Directional

## End of Well Report



Sundry Number: 58554 API Well Number: 43047542940000

**Local Co-ordinate Reference:**  
**TVD Reference:**  
**MD Reference:**  
**North Reference:**  
**Survey Calculation Method:**  
**Database:**

Well FD 10-17-2-2  
 FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)  
 FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)  
 True  
 Minimum Curvature  
 EDM 5000.1 Single User Db

**Company:**  
**Project:**  
**Site:**  
**Well:**  
**Wellbore:**  
**Design:**

Bill Barrett Corporation  
 Fort Duchesne  
 SECTION 17 T2S, R2E  
 FD 10-17-2-2  
 Wellbore #1  
 Actual

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	7,122.0	1.41	84.82	7,121.4	36.6	-25.3	28.7	0.14	-0.11	-3.53
	7,200.0	1.50	81.82	7,199.3	38.3	-25.1	30.7	0.15	0.12	-3.85
	7,287.0	0.31	104.03	7,286.3	39.5	-25.0	32.0	1.40	-1.37	25.53
	7,372.0	0.09	275.23	7,371.3	39.6	-25.1	32.2	0.47	-0.26	201.41
	7,458.0	0.09	236.23	7,457.3	39.5	-25.1	32.1	0.07	0.00	-45.35
	7,543.0	0.22	173.35	7,542.3	39.6	-25.3	32.0	0.23	0.15	-73.98
	7,631.0	0.49	117.91	7,630.3	40.0	-25.6	32.4	0.46	0.31	-63.00
	7,718.0	0.49	117.74	7,717.3	40.8	-26.0	33.0	0.00	0.00	-0.20
	7,804.0	0.49	96.14	7,803.3	41.5	-26.2	33.7	0.21	0.00	-25.12
	7,889.0	0.88	93.81	7,888.3	42.5	-26.3	34.7	0.46	0.46	-2.74
	7,975.0	1.02	94.12	7,974.3	43.8	-26.4	36.2	0.16	0.16	0.36
	8,060.0	0.80	95.35	8,059.3	45.1	-26.5	37.5	0.26	-0.26	1.45
	8,145.0	0.80	86.54	8,144.3	46.1	-26.5	38.7	0.14	0.00	-10.36
	8,232.0	0.88	96.85	8,231.3	47.3	-26.5	40.0	0.20	0.09	11.85
	8,320.0	1.02	86.32	8,319.3	48.7	-26.6	41.4	0.25	0.16	-11.97
	8,406.0	1.10	83.41	8,405.2	50.0	-26.4	43.0	0.11	0.09	-3.38
	8,490.0	1.02	85.44	8,489.2	51.4	-26.3	44.5	0.11	-0.10	2.42
	8,576.0	1.02	110.11	8,575.2	52.8	-26.5	46.0	0.51	0.00	28.69
	8,661.0	1.19	95.35	8,660.2	54.4	-26.8	47.6	0.39	0.20	-17.36
	8,747.0	1.19	104.74	8,746.2	56.1	-27.1	49.4	0.23	0.00	10.92
	8,832.0	1.28	91.03	8,831.2	57.9	-27.4	51.2	0.36	0.11	-16.13
	8,917.0	1.28	89.93	8,916.1	59.6	-27.4	53.1	0.03	0.00	-1.29
	9,003.0	1.28	88.43	9,002.1	61.4	-27.4	55.0	0.04	0.00	-1.74
	9,090.0	1.28	99.63	9,089.1	63.2	-27.5	56.9	0.29	0.00	12.87
	9,178.0	1.19	93.15	9,177.1	65.0	-27.7	58.8	0.19	-0.10	-7.36
	9,264.0	1.19	105.53	9,263.1	66.7	-28.0	60.6	0.30	0.00	14.40
	9,351.0	0.88	103.81	9,350.0	68.3	-28.4	62.1	0.36	-0.36	-1.98



**Payzone Directional**  
End of Well Report



Sundry Number: 58554 API Well Number: 43047542940000

<b>Company:</b> Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b> Well FD 10-17-2-2
<b>Project:</b> Fort Duchesne	FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)
<b>Site:</b> SECTION 17 T2S, R2E	FD 10-17-2-2 @ 5122.0usft (CAPSTAR 330)
<b>Well:</b> FD 10-17-2-2	True
<b>Wellbore:</b> Wellbore #1	Minimum Curvature
<b>Design:</b> Actual	EDM 5000.1 Single User Db

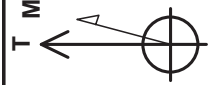
Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
9,436.0	0.88	103.64	9,435.0	69.5	-28.7	63.3	0.00	0.00	-0.20
9,453.0	1.10	103.94	9,452.0	69.8	-28.8	63.6	1.29	1.29	1.76
9,511.0	1.10	103.94	9,510.0	70.9	-29.0	64.7	0.00	0.00	0.00

Checked By: _____	Approved By: _____	Date: _____
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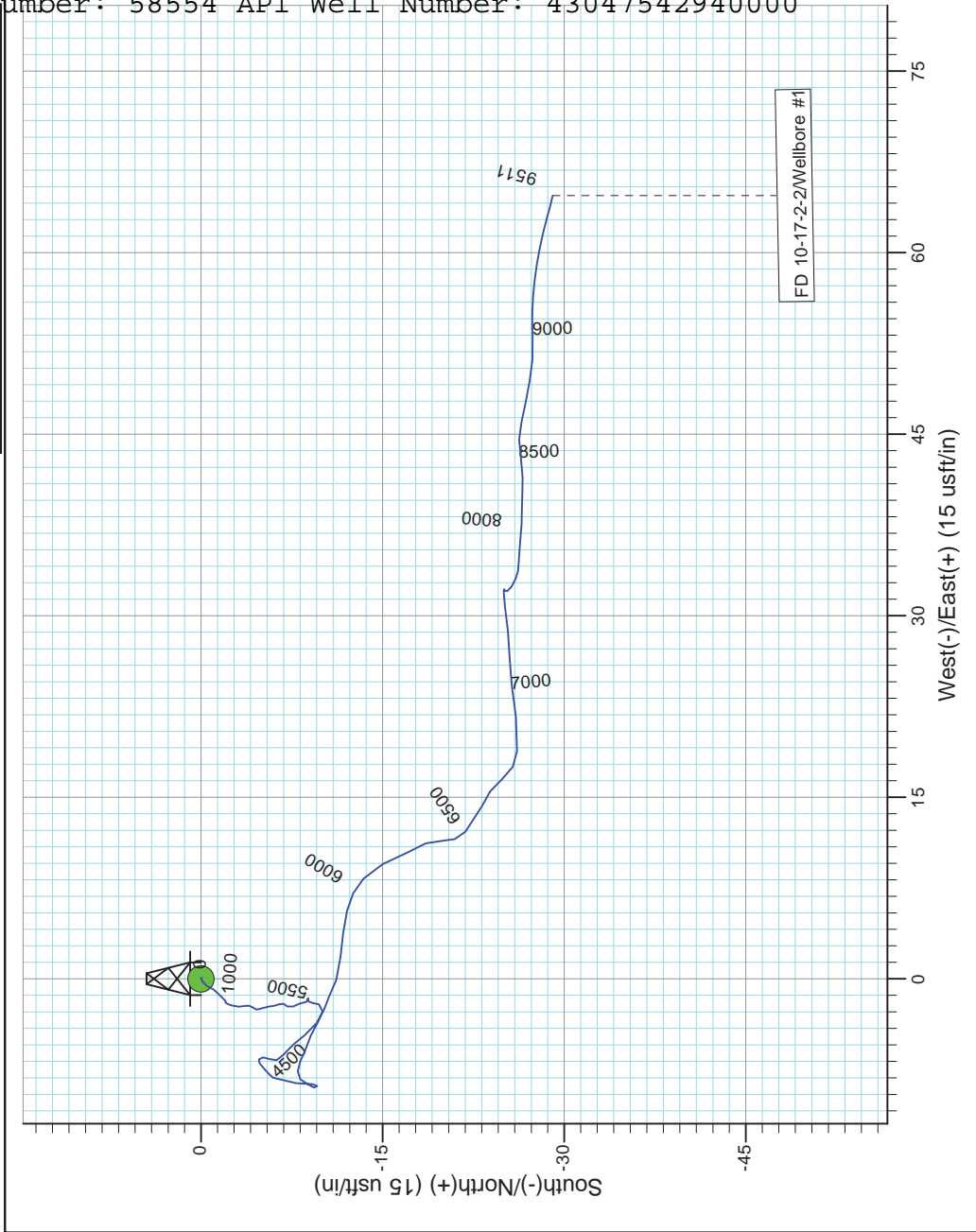
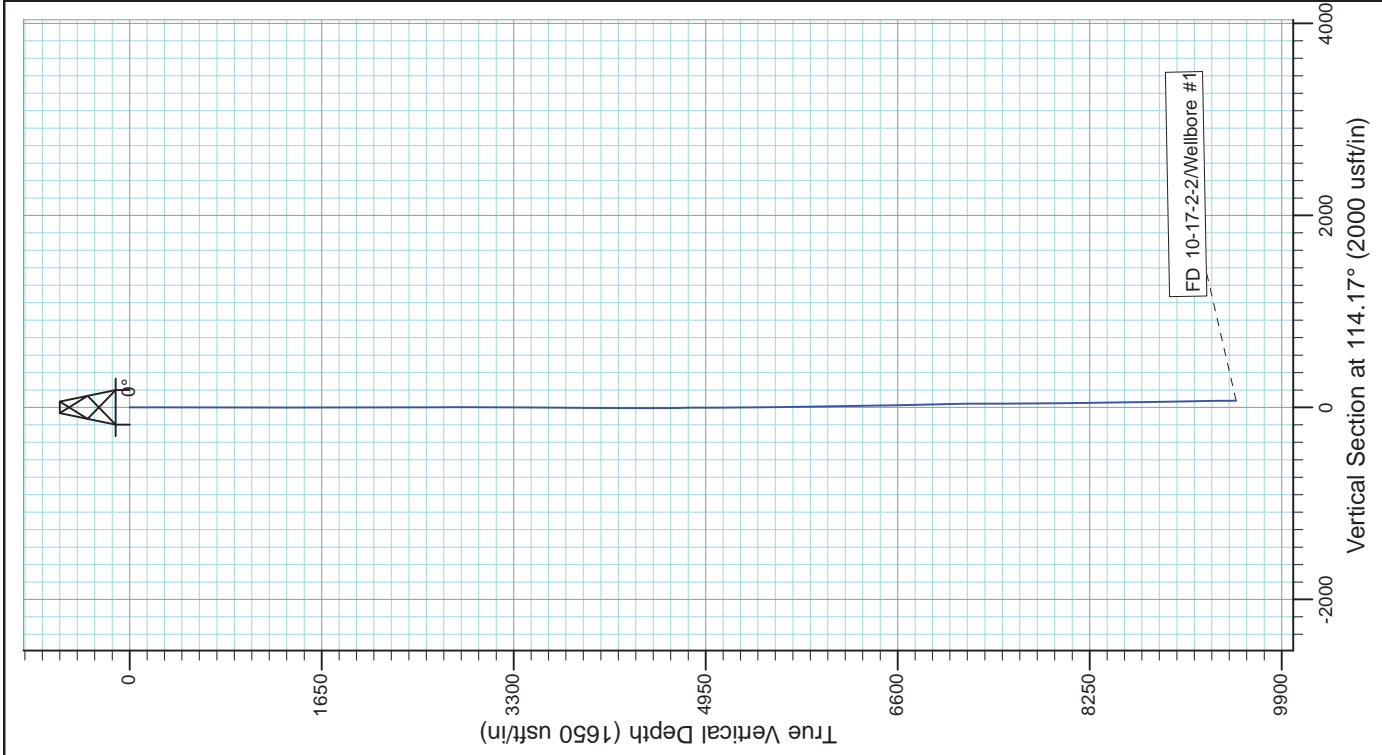
RECEIVED: Dec. 05, 2014



Project: Fort Duchesne  
Site: SECTION 17 T2S, R2E  
Well: FD 10-17-2-2  
Wellbore: Wellbore #1  
Design: Actual



Azimuths to True North  
Magnetic North: 10.82°  
Magnetic Field  
Strength: 52129.7nT  
Dip Angle: 65.98°  
Date: 9/22/2014  
Model: IGRF2010



Design: Actual (FD 10-17-2-2/Wellbore #1)

Created By: Matthew Linton

Date: 6:53, October 20 2014

THIS SURVEY IS CORRECT TO THE BEST OF  
MY KNOWLEDGE AND IS SUPPORTED  
BY ACTUAL FIELD DATA